

V4225



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V4225

Sean M. Rovito

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Physiology and Hydration

Notes

Sean M. Rovito

2006 (Part) to 2007 (Part)

Catalogue #91-171

USA: California: Fresno, Inyo, Kern,
Lassen, Mariposa, Mono, Placer, Tulare,
Tuolumne

Columbia: Cundinamarca
Guatemala: El Peten, Izabal,
Quetzaltenango, San Marcos, Zacapa

Mexico: Chiapas

Sean M. Rovito

2006 (Part) to 2007 (Part)

Catalogue 891-171

USA: California: Fresno, Inyo, Kern,
Lassen, Mendocino, Mono, Placer, Tulare,
Tuolumne

Columbia: Cundinamarca
Guatemala: El Peten, Izabal,
Quetzaltenango, San Marcos, Zacapa

Mexico: Chiapas

Rovito, Sean
2006

Catalogue

0.5 mi. S of Shirley Meadows Ski Area on Rancheria Rd., Groenholm Mtns, Sequoia NF, Kern Co., CA
May 22 35.70455° N, 118.56560° W [WGS 84, 9m acc.], 2054m elev. ^{6/1/06}
Ensatina eschscholtzii platensis SMR91 FF-liver ~~SMR91~~
- regenerated tail - intergrade? w/ creata
air temp 47°F, found at 11PM

Evans Flat Campground, east end of campground, Groenholm Mtns., Kern Co., CA
May 23 35.64346° N, 118.58803° W [WGS84, 11m acc.], 1909m elev. ^{6/1/06}
Ensatina e. platensis adult female SMR92 FF-liver ~~SMR92~~

Unnamed tributary of Cottonwood Creek, directly W from Cottonwood Canyon trailhead, Golden Trout Wilderness, Inyo Co., CA
May 24 36.43958° N, 118.10825° W [WGS84, 20m acc.], 1978m elev.
Hydromantes platycephalus juvenile SMR93 FF-liver, intestine 5/30/06
H. platycephalus juvenile SMR94

Sawmill Creek, just inside mouth of canyon, Inyo NF, Inyo Co., CA
May 25 36.91242° N, 118.209037° W [WGS84, 14m acc.], 1512m elev.
H. platycephalus juvenile SMR95 FF-liver, intestine 5/30/06
H. platycephalus juvenile SMR96



Raito, Sean
2006

Catalogue

Camp Curry, southern edge of campground at small waterfall,
Yosemite National Park, Mariposa Co., CA
 $37.73538^{\circ}\text{N}, 119.57471^{\circ}\text{W}$ [WGS84, 14m acc.], 1282m elev.

June 4 *Hydromantes platycephalus* SMR97 juvenile FF-liver, intestine 6/6/06
collected at 10PM, air temp 62.0°F , 69.6% RH
- collected with Chris Martinez, Sean and David Buckley

Inyo Creek, near waterfall in canyon SW of Lone Pine campground,
Inyo National Forest, Inyo Co., CA
 $36.59099^{\circ}\text{N}, 118.20110^{\circ}\text{W}$ [WGS84 20m acc.], 1989m elev.

June 15 *Hydromantes platycephalus* SMR98 adult female liver-frozen 6/18/06
died on 6/6/06, preserved with ice until frozen
- collected with Sean Schirle

Highway area west of Twin Springs, Great Falls Basin, China
Lake Naval Air Weapons Station, Inyo Co., CA
 $35.85503^{\circ}\text{N}, 117.39739^{\circ}\text{W}$ [WGS84], 967m elev.

June 16 *Bufo punctatus* SMR99 FF-liver, intestine 6/18/06

On road up Hogback Creek, at power transmission line road, Inyo Co., CA
 $36.17268^{\circ}\text{N}, 118.00515^{\circ}\text{W}$ [WGS84, 10m acc.], 1342m elev.

June 17 *Phrynosoma platyrhinos* SMR100 adult 95% ETOH-liver 6/18/06



Porto, Sean
2006

Catalogue

Eagle Lake Rd., 5.7 mi. by road north of junction with Tallatin Rd.,
Lassen National Forest, Lassen Co., CA

June 18 40.60469°N, 120.84726°W [WGS84, 7m acc.], 1603m elev.
Thamnophis elegans adult SMR101 FF-liver 6/18/06
roadkill, collected with Chad Martin
74.2g, 520mm SVL, 602mm TTL photo 1020757 + 1020758

About 500m N of mouth of Pine Creek along west side of Eagle Lake,
Lassen National Forest, Lassen Co., CA

June 18 40.67935°N, 120.78979°W [WGS84, 8m acc.], 1565m elev.
Thamnophis elegans SMR102 adult female FF-liver 6/18/06
- caught 12:10PM with Chad Martin
photo 1020754, 1020755 58.6g, 461mm SVL, 612mm TTL

T. elegans SMR103 adult FF-liver 6/18/06
- caught 12:15PM by Chad Martin
photo 1020759, 1020760 44.8g, 455mm SVL, 608mm TTL

Bufo boreas SMR104 metamorph FF-liver, intestine 6/18/06
- caught 12:15PM with Chad Martin
photo 1020770, 1020771 0.3g

About 300m N of mouth of Pine Creek, W side of Eagle Lake,
Lassen National Forest, Lassen Co., CA

June 18 40.67855°N, 120.78774°W [WGS84, 8m acc.], 1565m elev.
B. boreas metamorph SMR105 FF-liver, intestine 6/18/06
caught 12:30PM with Chad Martin photo 1020772, 1020773 0.2g



Kristo, Sean
2006

Catalogue

About 300m N of mouth of Pine Creek, W side of Eagle Lake,
Lassen National Forest, Lassen Co., CA

June 18 40.67855°N, 120.78774°W [WGS84, 8m acc.], 1565m elev.

Bufo boreas tadpoles (3) SMR106 FF - fin clips 6/18/06

- all caught at 12:30 PM with Chad Martin

Apea intermontana tadpole SMR107 FF - fin clips 6/18/06

Pseudacris regilla tadpole SMR108 FF - fin clip 6/18/06

Pine Creek ^{about 0.5} mi from Spaulding tract, Lassen NF, Lassen Co., CA
40.66399°N, 120.79503°W [WGS84, 10m acc.], 1582m elev.

Sceloporus graciosus adult SMR109 FF - liver 6/18/06

- caught 1:30 PM by Chad Martin

photos 1020765 + 1020766 5.0 g, 51mm SVL, 110mm TTL

Southwest end of Papoose Meadow, Lassen National Forest, Lassen Co., CA

June 19 40.52152°N, 120.76362°W [WGS84, 10m acc.], 1611m elev.

Pseudacris regilla 2 juveniles 9:15 AM

SMR110 photo 1020795, 1020796 0.5g FF - liver, intestine 6/19/06

SMR111 photo 1020797, 1020798 0.5g FF - liver, intestine 6/19/06

Bufo boreas adult SMR112 9:50 AM FF - liver 6/19/06

- photos 1020809, 1020810 117.3g

40.52057°N, 120.76546°W [WGS84, 6m acc.], 1631m elev.

Sceloporus graciosus juvenile SMR113 1.0g, 30mm SVL, 57mm TTL

photos 1020779, 1020781 FF - liver 6/19/06

all collected with Allison Schultz and Chad Martin



Knapp, Sean
2006

Catalogue

- June 19 West side of Papoose Meadow, Lassen National Forest, Lassen Co., CA
40.52601°N, 120.76455°W [WG584, 7m acc.], 1626m elev.
Thamnophis elegans SMR114 subadult male FF-liver 6/19/06
27.3g, 381mm SVL, 521mm TTL 11:40
- all specimens at this site collected with Chad Martin and Allison Schultz
Pseudacris regilla SMR115 metamorph FF-liver 6/19/06
11:40
- 40.52621°N, 120.76270°W [WG584, 7m acc.], 1626m elev.
Thamnophis sirtalis SMR117 adult female FF-liver 6/19/06
63.2g, 470mm SVL, 608mm TTL 12:15
T. sirtalis SMR118 adult female 12:45 FF-liver 6/19/06
- photos 1020824, 1020826 34.6g, 448mm SVL, 609mm TTL
- 40.52692°N, 120.76087°W [WG584, 10m^{acc.}], 1634m elev.
Pseudacris regilla tadpole SMR119 12:06 FF-fin clip 6/19/06
P. regilla metamorph SMR120 12:10 FF-liver, intestine 6/19/06
- 40.52538°N, 120.76225°W [WG584, 10m acc.], 1627m elev.
Thamnophis elegans adult SMR121 FF-liver 6/19/06
- photos 1020811, 1020814 47.1g, 425mm SVL, 556mm TTL 12:28
Bufo boreas metamorph SMR122 FF-liver, intestine 6/19/06
- photos 1020807, 1020808 0.2g 12:30
- 40.52562°N, 120.76315°W [WG584, 8m acc.], 1625m elev.
Thamnophis sirtalis adult SMR123 FF-liver 6/19/06
- photos 1020819, 1020820 63.6g, 518mm SVL, 645mm TTL



Kovito, Sean
2006

Catalogue

USFS Rd. 32 N 79, 1 mi N of Christie Campground at Eagle Lake,
Lassen National Forest, Lassen Co., CA

June 16 Scoloporus graciosus SMR124 ~~adult~~ FF-liver 6/19/06
- collected by Chris Clark under net, died when collected
photos 1020782, 1020783 35mm SVL, 81mm TTL

Mouth of Merrill Creek, Eagle Lake, Lassen NF, Lassen Co., CA

June 20 40.54937°N, 120.80754°W [WGS 84, 21m acc.], 5090 ft. elev.

Thamnophis elegans SMR116 adult FF-liver 6/20/06

- photos 1020830, 1020831 54.8g, 445mm SVL, 543mm TTL

collected by Chris Conway and Rika Satsuda on mammal trap line

June 21 Thamnophis elegans SMR125 adult female FF-liver 6/22/06

- photos 1030007, 1030008 96.2g, 543mm SVL, 619mm TTL

Bufo boreas SMR126 adult 116.0g photos 1020872, 1020874 FF-liver 6/22/06
(all B. boreas)

B. boreas SMR127 metamorph 1.0g photos 1020862, 1020864

B. boreas SMR128 metamorph 0.5g photos 1020865, 1020866

B. boreas SMR129 metamorph 0.5g photos 1020867, 1020871

B. boreas SMR130 metamorph 0.5g photos 1020883, 1020885

B. boreas SMR131 metamorph 0.6g photos 1020890, 1020893

B. boreas SMR132 metamorph 0.5g photos 1020900, 1020902

B. boreas SMR133 metamorph 0.6g photos 1030001, 1030002

B. boreas SMR134 metamorph 0.4g photos 1030004, 1030006

all collected
at 18:00 by
Chris Conway and
Rika Satsuda



Kanto, Sean
2006

Catalogue

- 0.6 mi N of Terno - Grasshopper Rd and Hwy 139 intersection on Hwy 139, Lassen Co., CA
- June 22 40.91941°N, 120.74863°W [WGS84, 10m acc.], 1656m elev.
Coluber constrictor SMR135 adult gravid female - dead on road
- FF, 7g, 780mm TTL, 570mm SVL FF-liver 6/22/06
collected at 11:30AM by J. McElwaine, C. Moritz, C. Martin and J. Kanto
- 1 mi ~~West~~ West of Bucks Bay on Hwy 139, Lassen Co., CA
- June 22 40.69598°N, 120.74873°W [WGS84, 10m acc.], 1640m elev.
Coluber constrictor SMR136 adult dead on road FF-liver 6/22/06
- 61.2g, 817mm TTL, 600mm SVL
collected at 13:28 by J. McElwaine, C. Moritz, C. Martin and J. Kanto
- About 200m NW of Allen Pass, Kings Canyon National Park, Fresno Co., CA
- July 3 36.79549°N, 118.41489°W [WGS84, 5m acc.], 3454m elev.
Hydromantes platycephalus SMR137 subadult FF-liver 7/10/06
- collected with Sean Schiille
- Bullfrog Lakes, northeast of upper lake below Mt. Florence,
Golden Trout Wilderness, Sequoia National Forest, Inyo Co., CA
- July 18 36.40046°N, 118.55233°W [WGS84, 7m acc.], 3405m elev.
Hydromantes platycephalus SMR138 adult female FF-liver 7/22/06



Roots, Sean
2006

Catalogue

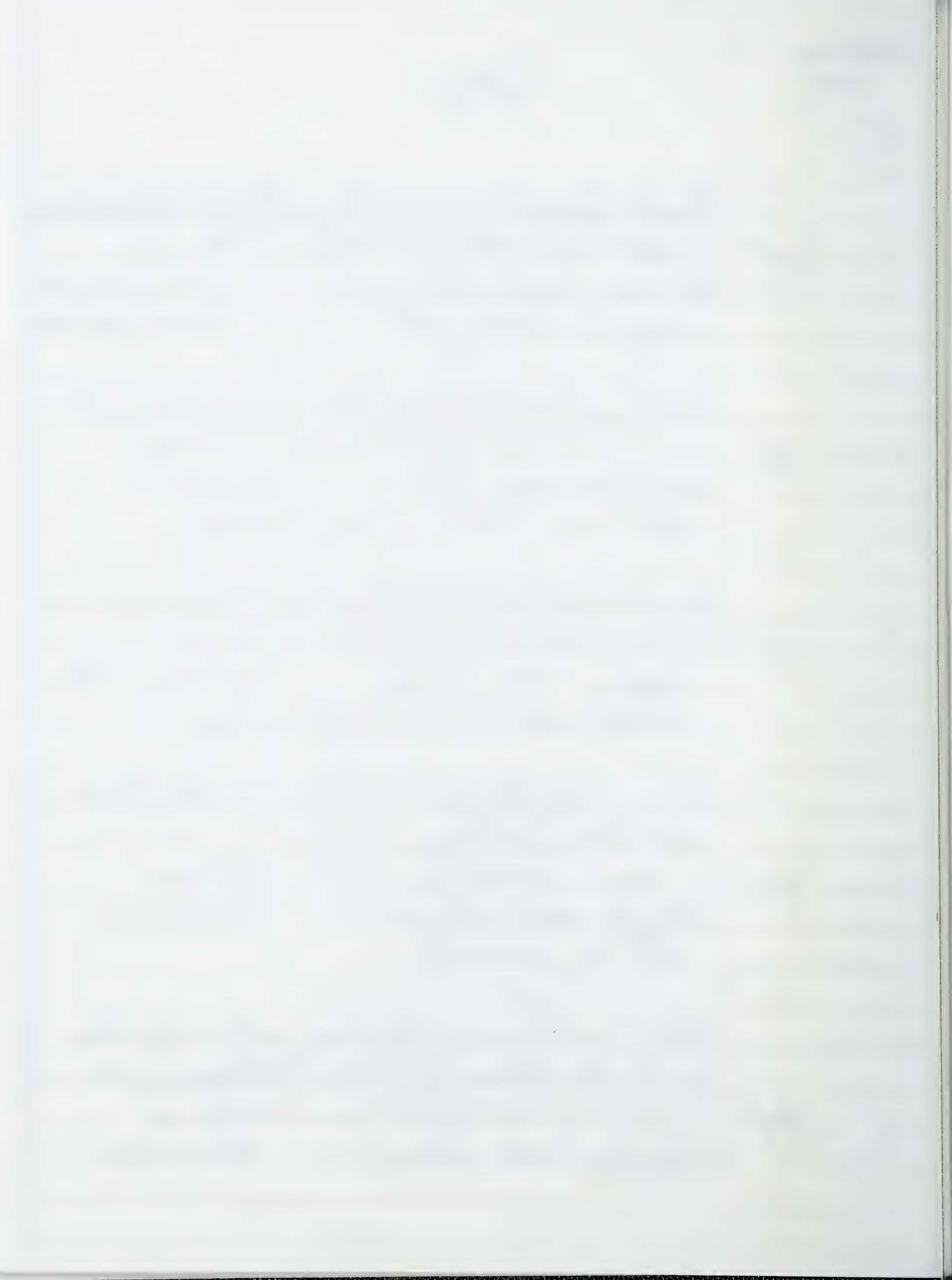
Franklin Lakes, north of lower lake, Sequoia National Park, Tulare Co., CA
July 19 36.42204°N, 118.55690°W [WGS84, 8m acc.], 3256m elev.
Hydromantes platycephalus SMR139 juvenile FF-liver, intestine 7/22/06
H. platycephalus SMR140 juvenile FF-liver, intestine 7/22/06

South^{east} end of Pear Lake, Sequoia National Park, Tulare Co., CA
July 19 36.59755°N, 118.66609°W [WGS84, 16m acc.], 2922m elev.
H. platycephalus SMR141 subadult FF-liver 7/22/06
- collected by Sean Schmitt and Nance Nrodonberg

~150m ENE of Jolly Lake, John Muir Wilderness, Sierra NF, Fresno Co., CA
July 24 37.48736°N, 118.87973°W [WGS84, 8m acc.], 3048m elev.
H. platycephalus SMR142 adult female liver - RNALater 7/25/06
- accidentally crushed head under rock, collected as salvage

~300m N of Seven Tables Lakes, W of Nee Lake, John Muir Wilderness, Sierra National Forest, Fresno Co., CA
July 27 37.32710°N, 118.81872°W [WGS84, 9m acc.], 3333m elev.
H. platycephalus SMR143 adult female liver - FF 7/30/06
- collected with Sean Schmitt

South of Cornet Lake, west of outflow stream near top of slope below lake, John Muir Wilderness, Sierra National Forest, Fresno Co., CA
July 27 37.33171°N, 118.81122°W [WGS84, 6m acc.], 3487m elev.
H. platycephalus SMR144 adult male FF-liver 7/30/06



Rovito, Sean
2006

Catalogue

Aug. 3

Base of Bridalveil Falls, Yosemite NP, Mariposa Co., CA

37.71617°N, 119.65128°W [NAD 27, 20m acc.], 1222m elev.

Hydromantes platycephalus SMR145 adult skin, tail muscle taken
- found dead on rock, somewhat decomposed - ethanol (100%) 8/13/06
same GPS as for SMR12 - could not get reading

Aug. 12

"Fourth of July Chutes", north side of Peak 8514 between Barker Pass and Ellis Peak, Eldorado National Forest, Placer Co., CA

39.06560°N, 120.22768°W [WGS84, 16m acc.], 2482m elev.

Hydromantes platycephalus SMR146 adult female FF-liver 8/18/06

H. platycephalus SMR147 " "

- collected with Will Richardson, Chris Deiger

Aug. 12

North side of Conness Lakes at base of North Peak, Inyo National Forest, Mono Co., CA

37.97705°N, 119.30956°W [WGS84, 11m acc.], 3295m elev.

H. platycephalus SMR148 subadult FF-liver 8/18/06

H. platycephalus SMR149 subadult " "

Aug. 8

Milestone Basin, Sequoia National Park, Tulare Co., CA

36.64323°N, 118.46639°W

H. platycephalus SMR150 adult female FF-liver 8/18/06

H. platycephalus SMR151 subadult " "

- collected by Nance Nredenberg and Tate Jernstall

- subadult from 36.64374°N, 118.46644°W



Kantor, Sean
2006

Catalogue

Waterfall SE of Mt. Clarence-King, GO Lake Basin, Kings Canyon
National Park, Fresno Co., CA

Aug.

36.82752°N, 118.43613°W [WGS84, 5m acc.], 3314m elev.

Hydromantes platycephalus SMR152 adult female

FF-liver 8/18/06

H. platycephalus SMR153 adult male

" "

-specimens taken to University of San Carlos Museum in Guatemala

Columbine Lake, seeps southwest of lake, ~~Mariposa~~ ^{Sequoia} National
Park, Tulare Co., CA

Aug. 28

36.46052°N, 118.55521°W [WGS84, 9m acc.], 3321m elev.

H. platycephalus SMR154 adult

FF-liver

H. platycephalus SMR155 adult

" "

Hotel La Casa de San David, El Remate, Peten, Guatemala

Sept. 10

16.99358°N, 89.69238°W [WGS84, 7m acc.], 126m elev.

Bufo variegatus SMR156

Bufo marinus SMR157

Sept. 11

Bufo marinus - chytrid test swab only, not collected SMRBD1



Roots, Sean
2006

Guatemala - Catalogue

Finca Santa Julia, Depto. San Marcos, Guatemala 14.92711°N , $91.10090362^{\circ}\text{W}$
[WGS84, 10m acc.], 1083m elev.
8/25/06 CRVA 973-976 Mesaspis nasalis
CRVA 1016 Microrus
CRVA 977 Thrinacosoma
CRVA 978 Sphenomorphus
CRVA 979-982 Hermaphys mexicanus
CRVA 983-985 Bolitoglossa occidentalis - Finca El Zapote
~~CRVA 986-988~~ ~~Bolitoglossa occidentalis~~

Between Buena Vista and Alden Pajon, Km 260.6 on RN1, Depto. San Marcos
CRVA 986 B. morio
 14.93999°N , 91.84894°W [WGS84, 5m acc.], 2444m elev.

Below Finca la Cruz on RN1, Depto. San Marcos
CRVA 987 Ambystoma dimidiata

Saddle above El Rincon, W of San Marcos, Depto. San Marcos
8/26/06 ⁽⁹¹³⁾ 14.95746°N , 91.84595°W [WGS84, 10m acc.], 2836m elev.
CRVA 988-990 B. morio
CRVA 991 B. lincolni
 $14.950547^{\circ}\text{N}$, 91.84607°W [WGS84, 19m acc.], 2789m elev.
⁽⁹¹⁴⁾ CRVA 992 B. morio
CRVA 993-95 B. morio
CRVA 996 Mesaspis moreleti



Kristo, Sean
2006

Guatemala - Catalogue

SW of saddle above El Finca, just below saddle, Depto. San Marcos, Guatemala
Aug. 26 (25) 14.95289°N, 91.84604°W [WGS84, 10m acc.], 2779m elev.

CRVA 997-998 B. lincolni

CRVA 999 B. morio

(26) 14.95⁰⁹⁴~~000~~°N, 91.846⁸⁶~~000~~°W [WGS84, ¹⁵~~10~~m acc.], ²⁷⁶⁰~~2779~~m elev.

CRVA 1000 B. lincolni

CRVA 1001 Dendrobates bromeliacea juvenile FF-whole animal - MVZ 8/26/06

CRVA 1002 D. bromeliacea

CRVA 1003-1006 D. bromeliacea CRVA 1003- FF-liver, intestine to MVZ 8/26/06

Just N of saddle above El Finca, Depto. San Marcos

(27) 14.95986°N, 91.84602°W [WGS84, 10m acc.], 2811m elev.

CRVA 1007 B. lincolni

CRVA 1008 Thoraps

On road down from saddle to El Finca

(28) 14.95871°N, 91.84522°W [WGS84, 9m acc.], 2751m elev.

B. morio CRVA 1009

Buena Vista

Aug. 26

14.94231°N, 91.85273°W, 2342m

CRVA 1010 B. morio

CRVA 1011 B. lincolni

- collected by Dave, Marivalle + Carlos



Rovito, Sean
2006

Guatemala Catalogue

Buena Vista, Km 261 on RNI from San Marcos to Malacatan, Depto. San Marcos
Aug. 26 14.94150°N, 91.85279°W, 2435m elev.
CRVA 1012 B. morio

14.94123°N, 91.85151°W, 2478m elev.
CRVA¹⁰¹³ B. morio

Between Km 259 and Km 260, RNI, Depto. San Marcos, Guatemala
Aug. 26 14.94384°N, 91.84966°W, 2460m elev.
B. lincolni CRVA 1014
B. morio CRVA 1015
- all of the above collected by Dave, Marvalee + Carlos

Caspio Alongo, Km 222.6 RNI on road to San Marcos between San Juan Ostuncalco and Palestina de los Altos
Aug. 27 14.8749°N, 91.6590°W, 2785m
CRVA 1019 Pseudoeurycea rex
CRVA 1020 B. rostrata
CRVA 1021 B. morio 14.8707°N, 91.6553°W, 2780m
Km. 222

Las Nubes, on road from San Martin to Coban, Depto. Quetzaltenango
CRVA 1018 B. morio

CRVA 1018-1021 collected by Dave, Marvalee and Josh



Raito, Sean
2006

Guatemala - catalogue

Volcan Chicabal, far side of Laguna Chicabal from trail down
from rim, Depto. Quetzaltenango, Guatemala

Aug. 27 14.78755°N, 91.65855°W [WGS84, 19m acc.], 2722m elev.

CRVA 1017 Pseudoeurycea goebeli

Buena Vista, Km 261 on RNI from San Marcos to Malacatan, ^{Depto. San} Marcos, Guatemala

Aug. 28 14.9415°N, -91.85279°W [WGS84], 2435m elev.

CRVA 1022 Bolitoglossa morio

Cerro Chetajel, Depto. San Marcos, Guatemala

Aug. 28 14.90916°N, 91.81213°W [WGS84, 10m acc.], 3031m elev.

CRVA 1023, 1024 Craugastor godmani

CRVA 1025-1028 B. lincolni

South transect, 1.4 Km ^{below} past El Boqueron school, Depto. San Marcos

Aug. 28 14.93616°N, 91.84349°W [WGS84, 9m acc.], 2475m elev.

CRVA 1029 B. morio

CRVA 1030 B. lincolni brown color

CRVA 1031 B. franklini x lincolni

CRVA 1032 B. franklini

CRVA 1033 B. franklini of franklini x lincolni

CRVA 1034 B. lincolni

CRVA 1035 B. franklini or B. franklini x lincolni



Karto, Sean
2006

Guatemala - catalogue

Aldea Colina II, on road from San Marcos to Malacatan, Depto.
San Marcos, Guatemala

Aug. 29 14.91970°N, 91.95895°W [WGS84, 6m acc.], 768m elev.
CRVA1036-1041 G B. occidentalis

Cerro de las Manos, Sierra de las Minas, Depto. Zacapa, Guatemala

Sept. 6 6.4 Km by road from San Lorenzo marble mine
15.11328°N, 89.67802°W [WGS84, 9m acc.], 2200m elev.

CRVA1042 Bolitoglossa sp. nova "Finca Placada" subadult male FF liver - 9/8/06
CRVA1043 " " juvenile FF whole - 9/8/06

6.3 Km by road from San Lorenzo marble mine
15.11223°N, 89.67793°W [WGS84, 9m acc.], 2200m elev.

CRVA1044 Cryptotriton sp. FF - liver 9/8/06
CRVA1045 Sceloporus taeniacornis FF - liver 9/8/06

by road

6.6 Km SSE of La Unión, Depto. Zacapa, Guatemala

Sept. 7 14.93768°N, 89.27569°W [WGS84, 9m acc.], 1409m elev.

CRVA1046-1048 Bolitoglossa rufescens FF - liver 9/8/06
CRVA1049 Bolitoglossa sp. ↓ liver, intestine
CRVA1050 Amphisp. laurentini



Roito, Sean
2006

Guatemala - catalogue

6.0km SSE by road of La Unión, Depto. Zacapa, Guatemala
Sept. 7 14.93264°N, 89.27491°W [WGS84, 9m acc.], 1383m elev.
CRVA1051-1058 Bolitoglossa rufescens FF-liver 9/8/06

1.6km by road SSE of La Unión, Zacapa, Guatemala
Sept. 7 14.95991°N, 89.28574°W [WGS84, 6m acc.], 1121m elev. opposite Finca Santa Fe
CRVA1059 B. rufescens FF-liver 9/8/06

On road from La Unión to Lualaba, 2.4km by road S of Rio
Montaña, Depto. Zacapa, Guatemala
Sept. 7 15.10516°N, 89.35691°W [WGS84, 19m acc.], 213m elev.
CRVA1060 Bufo marinus DOR FF-liver 9/8/06

5.0km by road from Santo Tomas on road to Los Pavos, Depto.
Chimal, Guatemala
Sept. 8 15.68544°N, 88.64261°W [WGS84, 15m acc.], 84m elev.
CRVA1061 Smilisca baudini FF-liver 9/10/06

garden of Aron Bay Hotel, north of Santo Tomas, Depto. Chimal, Guatemala
Sept. 8 15.70405°N, 88.64467°W [WGS84, 34m acc.], 17m elev.
CRVA1062 Leptodyra polysticta
CRVA1063-65 Rana berlandieri juveniles
CRVA1066-1067 Leptodactylus labialis



Kovito, Sean
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Guatemala-catalogue

Las Escobas, above small dam, base of Cerro San Hil, Depto.
Chabal, Guatemala

Sept. 9 CRVA 1069 Graugastor
- no GPS coordinates taken

Road to Matel towers on Cerro San Hil, Depto. Chabal, Guatemala
Sept. 9 15.68777°N, 88.66544°W [WGS84, 12m acc.], 563m elev.
CRVA 1070 Rana berlandieri adult

- up road from this point (~0.5km)

CRVA 1068 Bothriopsis asper adult male

CRVA 1075 Amantodes

CRVA 1076 Sison

CRVA 1077-1080 Bolitoglossa mexicana FF-liver 9/10/06

- down road from this point:

CRVA 1072 Amantodes sencha

CRVA 1073 Graugastor

CRVA 1074 Amphisca brandinii

15.68974°N, 88.66219°W [WGS84, 17m acc.], 428m elev.

CRVA 1071 Graugastor

ca. ^{0.5} Km from Sto Tomas - Las Paves road on road to towers on Cerro
San Hil, Depto. Chabal, Guatemala

Sept. 9 CRVA 1081 Bufo valliceps
- no GPS coordinates taken

Rovito, Sean
2006

Mexico - catalogue

Road to Carrillo Puerto, 2.3 Km from Tapachula-Nueva Alemania road,
Chiapas, Mexico

Aug. 29 14.96002°N, 92.21344°W [WGS84, 8m acc.], 296m elev.

Smilisca baudinii AMA2140 FF-muscle 9/8/06

3.7 Km from intersection - AMA2141 Bufo valliceps FF-^{liver}~~muscle~~ 9/8/06

Road from Hwy 200 to El Porvenir, Chiapas, Mexico

Aug. 30 20.5 Km from highway

15.41922°N, 92.33464°W [WGS84, 12m acc.], 2532m elev.

AMA2142 adult B. franklini nigroflavescens

AMA2143 juvenile " "

14.1 Km from highway

15.38387°N, 92.32753°W [WGS84, 15m acc.], 2259m elev.

AMA2144, 2145 Plectrohyla

11.4 Km from highway, down dirt road S of main road, near turnoff
to Los Pinos - El Retiro

15.36917°N, 92.33580°W [WGS84, 14m acc.], 2041m elev.

AMA2146 Silvery FF-liver 9/1/06

3.1 Km from highway

15.34473°N, 92.29015°W [WGS84, 9m acc.], 2053m elev.

AMA2147 Silvery



Reits, Sean
2006

Mexico - catalogue

Aug. 31 Top of Cerro Motal, Chiapas, Mexico near radio tower
15.42621°N, 92.34196°W [WGS84, 8m acc.], 3016m elev.

AMA 2148, 2149 B. franklini nigroflavescens

AMA 2150 Bulfo tucanensis FF-liver 9/2/06

Km by road from top of Cerro Motal
15.42999°N, 92.33536°W [WGS84, 8m acc.], 2871m elev.

AMA 2151-2153 B. f. nigroflavescens

AMA 2154 Cerrophidion godmani

AMA 2155 Mesaspis moreleti

Sept. 1 Top of Cerro Tzontehuitz, near San Cristobal de las Casas, Chiapas, Mexico
16.81787°N, 92.58017°W [WGS84, 7m acc.], 2867m elev.

Bulfo loacanti AMA 2156 FF-liver 9/2/06

Mesaspis moreleti AMA 2157 FF-liver 9/2/06

B. rostrata AMA 2158

B. rostrata AMA 2159 FF-liver 9/2/06 tail tip - 95% EtOH

B. hartwegi AMA 2160-2170 AMA 2161 - FF liver 9/2/06

USA

July 29 W side of Sonora Pass, Stanislaus NF, Tuolumne Co., CA
38.31977°N, 118.66316°W [WGS84, 8m acc.], 20701m elev.

Hydromantes platycephalus SMR168 subadult FF-liver 1/17/07
- kept alive for physiological studies



Karto, Sean
2006

Catalogue

Lago Petén Itzá, Hotel Camino Real, 4.3 km by road W of El Remate,
Depto. Petén, Guatemala

Sept. 12

Trachomys

SMR158

FF-liver 9/12/06

16.9976°N, 89.7276°W [WGS84, 6m acc.], 111m elev.

4.1 km by road W of El Remate, N shore of Lago Petén Itzá,
Depto. Petén, Guatemala

Sept. 12

16.99453°N, 89.72334°W [WGS84, 10m acc.], 111m elev.

Staurotypus

SMR159

FF-liver 9/12/06

11.3 km by road E of ^{Puerto Jalcán} ~~CA-13~~ (intersection with ^{CA-} ~~CA-13~~) on road to
Melchor de Mencos, Depto. Petén, Guatemala

Sept. 12

16.95331°N, 89.59010°W [WGS84, 5m acc.], 208m elev.

Staurotypus

SMR160

FF-liver 9/12/06

On shore of lake just E of Villa Maya hotel entrance, 2.6 km by
road north of ^{CA-} ~~CA-13~~, Depto. Petén, Guatemala

Sept. 12

16.92025°N, 89.82095°W [WGS84, 8m acc.], 134m elev.

Bufo wallacensis

SMR161

subadult female

FF-liver 9/12/06

B. wallacensis

SMR162

subadult

"

"

Riitters, Sean
2006

Catalogue

Sept. 27 El Cariche, Mpio. Jalisco, Depto. Cundinamarca, Colombia
4.93007°N, 74.11208°W [WGS84, 29m acc.], 2876m elev.
Phenacosaurus SMR163 adult liver-RNA Later 9/30/06

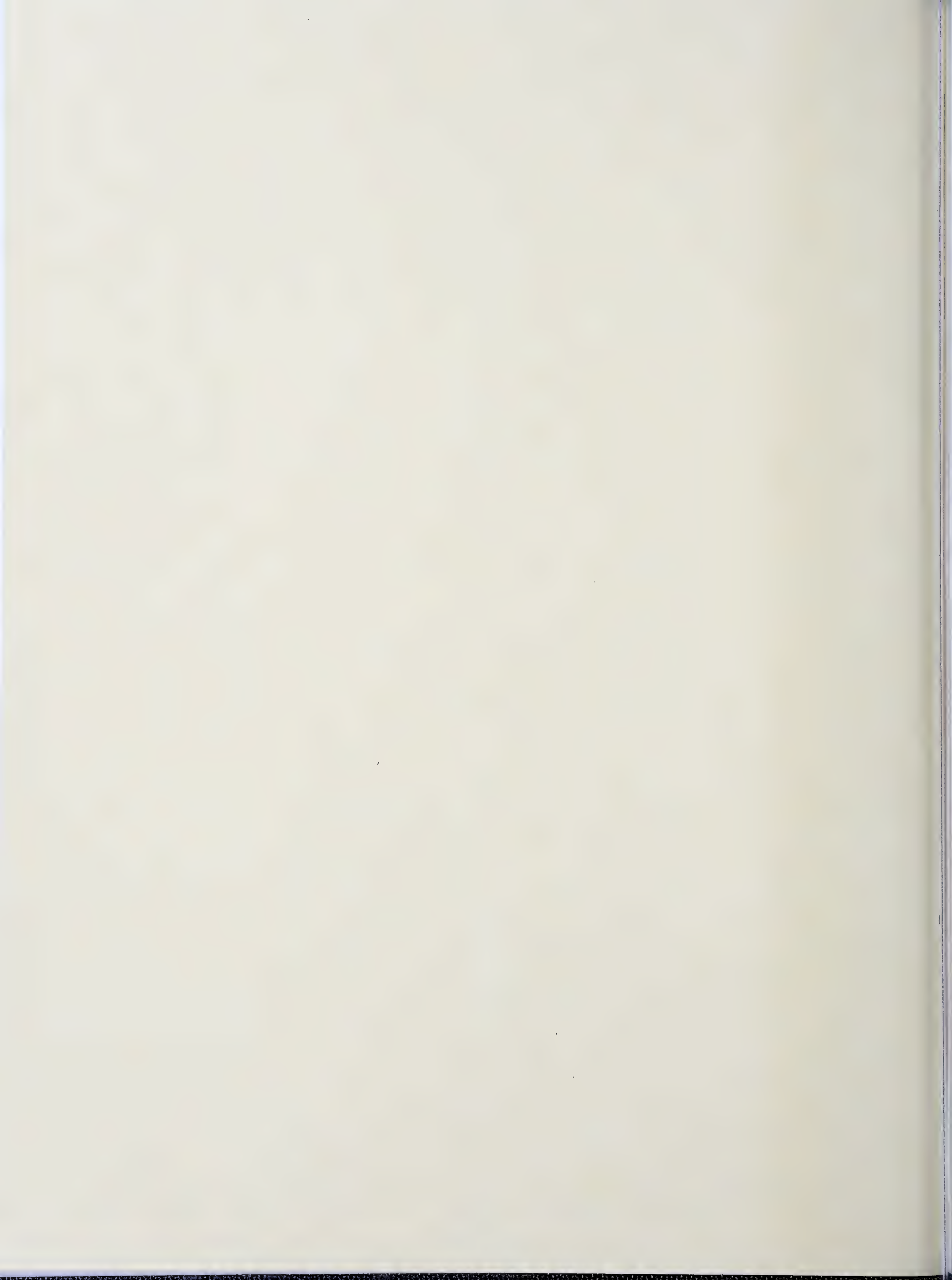
Oct. 2 Parque Natural Chicagué, San Antonio de Tequendama, Depto. Cundinamarca, Colombia
4.60747°N, 74.30668°W [WGS84, 8m acc.], 2536m elev.
Bolitoglossa sp. SMR164 juvenile liver + intestine - RNA Later 10/3/06

Oct. 3 Bolitoglossa sp. SMR165 liver + intestine - RNA Later 10/3/06

4.60674°N, 74.30672°W [WGS84, 9m acc.], 2584m elev.
Bolitoglossa sp. SMR166 liver + intestine - RNA Later 10/3/06
Bolitoglossa sp. SMR167 " "

2007
↓

Feb. 16 North Fork Mores River at Indian Gulch, Mariposa Co., CA
37.65755°N, 120.05045°W [WGS84, 6m acc.], 421m elev.
Hyla brunneum SMR169 adult female FF-liver 2/16/07
- injured by rock, leg broken - collected 1/c of this
Ensatina eschscholtzii xanthoptica SMR170 juvenile " "
Batrachoseps lineatus SMR171 adult FF-liver, intestine 2/16/07



Sean M. Rovito

2006 (Part)

Journal

USA: California: El Dorado, Fresno,
Inyo, Lassen, Mariposa, Mono, Sierra,
Tulare, Tuolumne

USA: Nevada: Esmeralda

Columbia: Cundinamarca

Guatemala: Alta Verapaz, Baja Verapaz,
El Peten, Izabal, Quetzaltenango, San
Marcos, Zacapa

Mexico: Chiapas

Rovito, Sean
2006

Journal

Feb. 16

N Fork Merced River at Indian Gulch, Mariposa Co., CA (cont)

... to collect the snail samples:

<u>Snail #</u>	<u>Age class</u>	<u>sex</u>	<u>type</u>	<u>photo</u>
NF7	juvenile (large)		lateral + ventral	1040024
NF8	"	"		1040025
NF9	adult	♀		1040026
NF10	juv.			1040028
NF11	subadult			1040029
NF12.	juv.			1040031 + 32

Ricardo searched until 11:40 and found 1 of the the above, plus 4 more juveniles too small to snail, as well as an adult B. dialolicus (SMR171) a juvenile Ensatina e. xanthoptica (SMR170) that we collected. He walked towards the river and found 1 more adult female H. brunus along a side road to the river, it was injured when he flipped the rock, so we collected it (SMR169). We left and drove up a bad road (muddy + snowy) with big ruts to Five Corners and then down to Berkeley Camp, where we checked traps but found nothing. We drove north to Fresno Co. and checked 2 more pitfall arrays but found nothing more. We then drove back to Berkeley.

Rovito, Sean
2006

Journal

Olancha Creek, Inyo National Forest, Inyo Co., CA
May 23 Last night I camped in the Hornhorn Mtns, 0.5 mi S of Shirley Meadows Ski Area on Rancheria Rd., after leaving Berkeley in the afternoon. It was cold and very foggy, and I found an Ensatina eschscholtzii ^(SMR91) platensis out on a stump amid fir and incense cedar at 11 PM (air temp 47°F). I searched under rocks and logs for another hour but found nothing else. In the morning, I continued south along Rancheria Rd. to Evans Flat Campground, where I hoped to see Oreocetes. Instead, I found an adult female platensis under a piece of tin at the east edge of the campground amid ~~and~~ fir and incense cedar. I collected it (SMR92, 35.64346°N, 118.58803°W [WG584, 11 m acc], 1909 m elev.) and left. I drove towards Walker Pass and detoured N to Chimney Rock campground, where I failed to find Batrachoseps robustus. I drove down Ninemile Canyon Rd and up to Olancha. I drove W of town, across the LA aqueduct and parked next to the creek. I hiked west to the mouth of the canyon and attempted to ascend up the creek. The canyon walls are extremely steep and the bottom is smooth, scoured granite with the creek forming a series of cascades. I got past the first 2 but the third was too large and steep. I climbed up the south canyon wall towards the ridge top, slowly moving west, stopping out around 6000 ft. I passed a side canyon that

Frantz, Sean
2006

Journal

Olancha Creek, Inyo NF, Inyo Co., CA (cont)

May 23 led down to a big waterfall (~10m high) in the main creek. I hiked ^{up and} across this canyon onto the ridge and then made my way down another side canyon to the main creek. The vegetation of the south slope was scattered piñon pine with some oaks, Ephedra, and scrubby desert vegetation. I reached the creek at 4 PM at an elevation of 5300 ft. There were lots of areas shaded by willows along the creek, as well as granite walls with mossy seep areas, especially next to the small cascades along the creek. I ascended the creek, flipping rocks and checking in the cracks, but found nothing. I eventually reached a cascade with a nice mossy splash zone at ~~5600~~ 5600 ft elev., which I checked with no success (36.26568°N, 118.06605°W [WG584, 11m a.s.l.], 1707m elev.). I had to turn back at this point, since it was 5:30 PM. I did not reach the side canyon at 5900 ft where Derham & Linker found both Hydromantes and Batrachoseps together, but the habitat I searched looked good. I climbed up along the north canyon wall, heading east, through sparse grass, bread wheat and piñon to a red-colored slide area, which I ascended to a saddle around 6000 ft. I then walked NE for ~100 m, reaching the edge of the mountain. I headed down a steep, loose rocky slope, ending up on the N side of the creek. I hiked back to my car, arriving at 8:30 PM. The day was sunny and very warm.

Karto, Sean
2006

Journal

24
May ~~24~~ Tributary of Cottonwood Creek, Golden Trout Wilderness,
and Charlie Canyon, N Fork Oak Creek, Inyo Co., CA
I hiked from the Cottonwood Canyon trailhead up Cottonwood
Creek for a short distance before turning west and hiking
upslope to a saddle at the top of the ridge. From here,
I hiked west at a more-or-less constant elevation (a little
uphill) up the canyon of the unnamed tributary of Cottonwood
Creek where my data logger is. I saw a gopher snake (Pituophis
caterpillar) among lupine and shrubs in sparse piñon vegetation
(36.44137°N , $118.09500^{\circ}\text{W}$ [WGS84, 6m acc.], 1926m elev.).
I also saw many Uta, Aspidoscelis and ground squirrels.
I continued west and descended to the creek about 150m
before the waterfall where my data logger is, and hiked up
to the waterfall through dense willow, cottonwood and oak.
I arrived to find that my data logger was flipped
upside down, though still attached to its pole, and its data
port cap was on the ground beside it. I tried but failed to
offload data, and the LED wasn't blinking, so I took the
logger with me. I searched the area of the waterfall and then
climbed up the left side; this was extremely dangerous and
I would never do it again. I walked upstream about
200m through the narrow rocky canyon, flipping rocks
along the stream, ~~down~~ and I stopped at the point where the
canyon opens up and widens. There was one area near the
top on the N side where several springs emerged from a
granite wall, forming a wet mossy area with rocks laying

Pinto, Sean
2006

Journal

Tributary of Cottonwood Creek, Golden Front Wilderness, and
Charlie Canyon, N Fork Oak Creek, Inyo Co., CA (cont).

May 24

on top of rocks - it looked perfect for salamanders, but I found none. This search lasted from ~12:30-2:30 PM, after which I climbed out of the canyon and hiked down and around back to the waterfall where I started. I flipped a few more rocks in a somewhat wet and mossy area above my data logger site and found 2 juvenile *H. platycephalus* (SMR 93 + 94); this is only a few feet from where I collected the juvenile that escaped last year. I hiked back to my car following the same route.

I drove to the campground at Charlie Canyon to camp. I hiked into the salamander site, which once again is somewhat overgrown with nettles, grasses and other annual vegetation. I offloaded the data from my logger at ~10 PM. I didn't see any salamanders out foraging, but I did find 4 juvenile *H. platycephalus* under a small log among horsetails and willows next to the stream on damp ground, and 1 adult and 2 juveniles under volcanic rocks among wild rose below the rock wall. I didn't flip many rocks or swab any salamanders since I want to minimize disturbance to the population. The weather today was sunny and warm, probably in the 80s, and the night was clear and cool, in the 60s.

Roito, Sean
2006

Journal

Lime Canyon and Sawmill Canyon, Inyo National Forest, Inyo Co., CA
May 25 I drove up the road to Onion Valley and parked at
Frays Meadow campground. I hiked up Lime Canyon, just south of
the campground, where Chris Fitchell found Hydromantes last summer.
I started at the level of the road and hiked about two-thirds
of the way up the canyon. The creek was usually bordered by
very dense willow and wild rose, as well as pines and other
trees. Many areas had horsetails and grasses and looked like the
habitat at Shanon or Charlie Canyon. I flipped many rocks
on the way up along and near the stream, but found nothing.
The vegetation was too dense to easily access portions of the
stream, so I didn't search those areas. The rock was white
and seemed almost like travertine - I don't know what it was. About
halfway up, the stream formed a series of mossy cascades with
overhives on the sides, which I searched unsuccessfully. I
turned back at 1:30 PM, having gotten a good way up the
canyon (high point: 36.77247°N , $118.30369^{\circ}\text{W}$ [WGS84, 10m acc.],
2122m elev.) in two hours of hiking. I hiked down to my car
and drove north to the mouth of Sawmill Canyon. I
crossed through dense cottonwood and willow trees across Sawmill
Creek at the mouth of the canyon. I climbed over a talus slope
on the south side of the canyon and reentered the vegetation
below the rocky south wall of the canyon. After a brief
search under rocks and logs along the stream, I found two
juvenile H. platycephalus under granite rocks in leaf litter next to
the stream (36.91242°N , $118.29037^{\circ}\text{W}$ [WGS84, 14m acc.], 1512m elev.).

Riitters, Sean
2006

Journal

Lime Canyon and Sawmill Canyon, Inyo NF, Inyo Co., CA (cont.)
May 25 ... I collected both (SMR 95+96) since all the tissue from here was ground for allozyme work. I found another ^{juvenile} salamander in a mossy area next to the stream under a rock, but it fell into water below some tree roots and escaped. I found a fourth juvenile in a mossy seep area at the base of the canyon wall, and took both buccal and ventral swabs (for chytrid testing). (5mC1 - Sawmill Canyon 1). There were several other small seep areas, but none had rocks to turn. I searched up the stream a bit more but found nothing; altogether, I searched from 4-5 PM. This canyon has the most shaded areas, mossy spots and leaf litter of any I have seen yet, and appears to have a lot of suitable riparian habitat for these salamanders. I walked back to my car and drove to Pine Creek to camp. The day was clear and hot, with a high of around 95°F.

Pine Creek, Shanna Canyon and Apple Canyon, Inyo NF, Inyo Co., CA
May 27 I woke up and hiked up the side canyon of Pine Creek where my data logger is (site PC(1)). The lower part of the canyon was filled with snow, up to about where my logger is. Lots of debris and sand indicated that the canyon had flooded, and the area around my logger had lots of dried mud and dead plants. The logger itself was still attached to the pole and apparently functioning, but the pole had bent in the middle at a 45° angle. I searched the creek for about 50m above the data logger, flipping rocks near the stream, and found 3 adult H. platycephalus.

Rovito, Sean
2006

Journal

May 26 Pine Creek, Shannon Canyon and Apple Canyon, Inyo NF, Inyo Co., CA (cont)
I got buccal swabs and ventral swabs (chytid test) for all 3:

<u>Sample #</u>	<u>Age</u>	<u>Sex</u>
PC(1) 11	adult	male
PC(1) 12	adult	female
PC(1) 13	adult	female

I also collected 7 Plethia for Sean Schorle at the base of a cascade of the stream (37.37605°N , $118.68400^{\circ}\text{W}$ [WGS84] 2350m elev.). I walked back to my car, got a new PVC pole, walked back to the data logger and replaced the pole. I offloaded the data to the shuttle at 10:55 AM.

I drove south past Bishop, took Keough Hot Springs Rd. to County Rd. and then drove W on the dirt road that heads to the mountains. I stopped about halfway to the end, where the road became very rough, and walked SW to meet the dirt road to Shannon Canyon (impassible in my car). I arrived at the mouth of the canyon at 2:10 PM and found my data logger in place; I offloaded the data to the shuttle. I searched along the stream/road, which was flowing with lots of water, for about 200m up from my logger. The area was very green and the soil under rocks near the stream was wet, but it was fairly dry only a few feet away from the stream. I found no salamanders anywhere. I did not check the areas where part of the creek flowed through willows and rose, as the vegetation was too dense. I ~~searched~~ ^{searched} for about 55 min before heading back to

Rovito, Sean
2006

Journal

May 26 Pine Creek, Shamon Canyon and Spoke Canyon, Inyo NF, Inyo Co., CA (cont.)
... my car; on the walk back, I saw a Hambelia wislizenii. I drove south to the turnoff for the Sawmill Pass trail and drove past the trail on the road, stopping, when my car couldn't make it further. I walked the rest of the way uphill to Spoke Canyon, a site where Derham Hinkley found Hydromantes. He reported them from the "head of the spring" at 6500 ft. I walked up the canyon to the beginning of the riparian vegetation at 6800 ft (36.9335°N , $118.33269^{\circ}\text{W}$ [WGS84, 6m acc.], 2089m elev.) and descended along the stream, flipping rocks and logs, until almost the point where the oak forest begins, at about 6400 ft. (36.93375°N , $118.32865^{\circ}\text{W}$ [WGS84, 10m acc.], 1945m elev.). The canyon had dense willow and aspen with stinging nettle, grasses and other annuals near the stream, which formed a series of cascades with many mossy areas. The habitat looked quite good for salamanders, but I found none in an hour of searching. On the walk back, I saw a Plestiodon skiltonianus in a rocky area with Ephedra and sagebrush near some oaks. The oak forest here is interesting - big trees and more of them than I have seen anywhere in the eastern Sierra. I drove down to the Sawmill Pass trailhead and camped. The high today was near 90°F , but it became cloudy in the afternoon and cooled off after 3PM, eventually becoming extremely windy by evening.

Karto, Sean
2005

Journal

June 5

Half Dome and Nermal Falls, Yosemite National Park, Mariposa Co., CA
Last night, cl stopped at Camp Curry with Chris Martinez, Solano and David Buckley. We hiked through the tent cabin area to a small stream and then followed the stream up to the granite wall at the south end of the camp, where it became a waterfall. There were lots of mossy rocks and plenty of wet areas, some with significant flow. cl found a juvenile H. platycephalus crawling on the wet granite wall at 10 PM. The air temp was 62.0°F and 69.6% RH. We continued searching and found a Pseudacris, as well as another H. platycephalus, which I collected (SMR 97: 37.73538°N, 119.57471°W [WG584, 14m acc.], 1282m elev.). There seemed to be a lot of very suitable habitat near the waterfall, but the rock elsewhere was dry.

The next morning (June 5), we hiked out from the Happy Isles trailhead up the John Muir trail, starting at 10 AM, and arrived at the top of Half Dome at 2:30 PM. It was a sunny and clear day, and fairly warm (probably in the 80s). On top of Half Dome, there was a small snowfield in the center, with a lot of seepage and exfoliated granite rock on the NW side. David and cl searched and found 14 juvenile, 1 subadult and 5 adult H. platycephalus between 3 and 4:30 PM (37.74507°N, 119.53387°W [WG584, 7m acc.], 2622m elev.). cl got buccal and ventral swabs of the adult and subadult salamanders, but the juveniles were all too small to swab. We searched all of the available habitat on this side of...

Kaito, Sean
2006

Journal

Half Dome and Nermal Falls, Yosemite National Park, Mariposa Co., CA (cont.)
June 5 ... the snow field. Swab samples were:

<u>Swab ID</u>	<u>Age class</u>	<u>Sex</u>
H01 (Half Dome)	Adult	Male
H02	Adult	Female
H03	Adult	Female
H04	Adult	Female
H05	Adult	Female
H06	Subadult	

We hiked down to Nevada Falls and then took the Mist Trail to Nermal Falls. Just below the top of the falls, we stopped in a small cave-like area along the trail (37.72708°N, 119.54348°W [WGS84, 30m acc.], 1538m elev. ^{Terrain Navigator}) where I found a juvenile *H. platycephalus* under a mossy rock around 7:30 PM. The area was dripping wet from above and extremely mossy. We found two more juveniles and a subadult, which I got buccal and ventral swabs from (VFI). It was getting dark, so we left and hiked down to Happy Isles, and then returned to Berkeley.

Harits, Sean
2006

Journal

June 13

Grooved Creek and Cottonwood Creek, Inyo National Forest, Mono Co., CA

I drove out to Bishop yesterday from Berkeley to meet Sean Schville. This morning we drove up into the White Mountains and stayed at the Grooved Creek station. We drove down the Grooved Creek road until it became too muddy, at which point we walked down along the creek. The area was grassy with sagebrush, with some aspen along the creek. We flipped rocks along the creek and Sean found a few carabid beetles. We continued down the creek to an area with some willows, but there wasn't much leaf litter or many cover objects to turn (37.49811°N , $118.11124^{\circ}\text{W}$ [WGS84, 7m acc.], 2798 m elev.).

We searched along the creek from 12:30-2 PM, but there wasn't an area that looked like good salamander habitat. We attempted to drive down into Cottonwood Creek but the road was too rocky. We returned to the Cottonwood Creek road at 7:45 PM, parked and walked down the road until it met the creek. The water emerges from a spring just above the road, goes through a meadow and then flows through dense willow growth. Sean and I searched from 8:30-9:30 PM. There were some areas below the road where there was a thick, moist layer of leaf litter and some dead wood. At the end of the area (east end) that we searched, there were some good-looking mossy areas along the creek (37.53138°N , $118.16267^{\circ}\text{W}$ [WGS84, 5m acc.], 2828 m elev.).

We did not find any salamanders, but this area has a fairly large area of suitable-looking salamander habitat. The weather today was cool, mostly clear and windy.



Karto, Sean
2006

Journal

Chiatorich Creek, Esmeralda Co., Nevada

June 14

Sean and I drove from Grooved Creek down to Hwy 178 and into Nevada and north through Fish Lake Valley. We went up Chiatorich Creek Rd. and drove until the road ended at about 8000 ft. We started up the North Fork of Chiatorich Creek at 12 PM. Around 10,000 ft the stream was bordered by willows and had many branches, with some areas with extensive leaf litter. We began searching at this point and worked our way upstream. The canyon became narrower and snowier, and we flipped rocks along the stream near the snow. We stopped in the wide area near the top of the canyon, just below the steep snowy slopes leading up to the crest (37.79529°N , $118.32421^{\circ}\text{W}$ [WGS84, 9m acc.], 3363m elev.) at 4 PM. We hiked over the ridge to the south to enter the South Fork of Chiatorich Creek, arriving at some springs feeding into the creek near the top at about 5 PM (37.78350°N , $118.31048^{\circ}\text{W}$ [WGS84, 5m acc.], 3293m elev.), above the treeline in a grassy area. We walked downhill along the stream, flipping rocks and wood. We passed into a pine forest (limber pine, I think) where there were many logs to flip, but it was only wet within a foot or two of the stream. The area around 9,000 ft looked particularly good, with many logs and rocks in wet stream areas, and could be suitable for salamanders. As we descended, the stream passed through grassy areas and became less suitable. We ^{searching} stopped at 6:30 PM (37.79152°N , $118.29086^{\circ}\text{W}$ [WGS84, 9m acc.], 2959m elev.) and walked back to the car. The day was cool and cloudy. We drove back to Bishop, and it rained lightly along the way.



Kovits, Sean
2006

Journal

Inyo Creek, Inyo National Forest and Great Falls Basin,
Inyo Co., CA

June 15

Sean Schorille and I parked at Lone Pine campground and walked up along Inyo Creek to about 6500 ft. We dropped into the creek bed at 6450 ft and started flipping rocks and logs along the stream, and open trees in shaded canyon habitat.

At the point where the stream becomes an impassible waterfall and the rock walls form a steep narrow canyon, Sean found a juvenile H. platycephalus under a large rock in the sun next to the stream on sandy soil. We searched under rocks from this point up to the waterfall (a few meters) and found a total of 6 juveniles, 2 subadults and one adult H. platycephalus. I collected the adult (SMR98) (36.59099°N, 118.20110°W [WGS84, 20m acc.], 1980m elev.). We searched the area around 12:30 PM for about 15 min. to find the salamanders. There were excellent-looking mossy areas along the waterfall, but only the first was accessible; I searched it and found nothing. We got the following swab samples:

Swab ID	Age class	Sex	Dorsal/Ventral	
IC(Inyo Creek)1	adult	female	B,V	- SMR98
IC2	subadult		B,V	
IC3	subadult		B,V	
IC4	juvenile		V	
IC5	juvenile		V	
IC6	juvenile		V	
IC7	juvenile		V	
IC8	juvenile		V	
IC9	juvenile		V	

The first of the year was a very successful one for the company. The sales were up and the profits were down. The second of the year was a very successful one for the company. The sales were up and the profits were down. The third of the year was a very successful one for the company. The sales were up and the profits were down.

The fourth of the year was a very successful one for the company. The sales were up and the profits were down. The fifth of the year was a very successful one for the company. The sales were up and the profits were down. The sixth of the year was a very successful one for the company. The sales were up and the profits were down.

The seventh of the year was a very successful one for the company. The sales were up and the profits were down. The eighth of the year was a very successful one for the company. The sales were up and the profits were down. The ninth of the year was a very successful one for the company. The sales were up and the profits were down.

The tenth of the year was a very successful one for the company. The sales were up and the profits were down. The eleventh of the year was a very successful one for the company. The sales were up and the profits were down. The twelfth of the year was a very successful one for the company. The sales were up and the profits were down.

Kovito, Sean
2006

Journal

June 15 Chico Creek, Chico NF and Great Falls Basin, Chico Co., CA (cont).
I released all salamanders except the adult female (5MR98) under rocks where they were found. We hiked back out and Sean L. left to do more Sierra fieldwork while I drove to Ridgcrest to meet Ted Papenfuss. In the evening, we drove to the spring at the bottom of Great Falls Basin where a Batrachoseps was once seen by an entomologist. The spring emerges from a crack in the rock and flows down a mossy wall into a pool. It looked like good salamander habitat above but it wasn't possible to climb up the spring, I collected a black beetle for Sean at the base of the spring (35.85521°N , $117.38172^{\circ}\text{W}$ [WGS84, 10m acc.], 850m elev.). We hiked up and around to an area well above the spring, but couldn't see any areas with water that were accessible. We left and drove back to Ridgcrest at 9 PM. We caught a small Grotalus cerastes on the road between Irona and Ridgcrest (35.69017°N , $117.38311^{\circ}\text{W}$ [WGS84, 10m acc.], 568m elev.) and a dead C. cerastes a little further along the road (35.64642°N , $117.51546^{\circ}\text{W}$ [WGS84, 10m acc.], 649m elev.). We collected both and returned to Ridgcrest.



Rovito, Sean
2006

Journal

June 16

Great Falls Basin, China Lake Naval Air Weapons Station, Inyo Co., CA

Ted and I met Tom Campbell and a team of archeologists from China Lake and drove to the ~~junction~~ junction of the road to Matwango Peak and the road to Bircham spring. A fuel truck met us there and we waited until a helicopter arrived. The archeologists wanted to look at several petroglyph sites and we wanted to put pitfall traps into several springs in Great Falls Basin below Argus Peak. We all got into the helicopter at 10AM (it fit 9 people) and flew south. Ted and two friends of Tom were dropped off somewhere in the general area of Deep Canyon Spring and then we flew north. The east slope of Argus Peak coming down into Great Falls Basin seemed to have riparian spring habitat in nearly every canyon, and some springs appeared to have surface flow and larger trees (probably cottonwoods). A GIS contractor named Dave and I were dropped off in the canyon west of Willow Spring at 10:30AM. We hiked down off the small flat ridge where the helicopter landed into the stream area. There were several pools of water with Bufo punctatus larvae in them, some of which were extremely small and shallow and others of which were at least a foot deep. There were probably at least a hundred tadpoles between all the small pools. I found 2 small toads and collected one (SMR99 - use GPS from trap 3). We walked upstream to find good areas for traps. Most of the streambed was either dry sand or damp sand, with isolated pools of water. Thick, tall grass and clumps of willow bordered the stream. We had a hard time finding areas that were moist and shaded but out of reach of flooding.

Kantor, Sean
2006

Journal

Great Falls Basin, China Lake NAWS, Inyo Co., CA (cont.)

June 16 We put in the first trap in a clump of willows in moist soil (Trap 1: 35.85536°N , $117.39775^{\circ}\text{W}$ [WGS84, ^{error not} recorded] UTM Zone 11: N 3967979 E 464087, 977m elev.) Each pitfall trap consisted of a paint can filled with 0.5L of propylene glycol (antifreeze) and had a 18in. square tile lid supported by 3 small rocks around the can and weighed down with a big rock on top. We put Trap 2 in the center of a clump of willows just above a small pool of water in moist soil with leaf litter on the S side of the stream (35.85492°N , $117.39853^{\circ}\text{W}$ [WGS84], 982m elev.; N 3967930, E 464017). We put the third trap under a very large boulder in a cave-like area with a sandy floor and a damp area where the rock met the soil (35.85503°N , $117.39739^{\circ}\text{W}$ [WGS84], 967m elev.). The area under the rock had damp soil with holes and dead roots where salamanders could live. We put traps 4 and 5 next to the stream in a small clump of willows just upstream of the largest pool along the stream (35.85428°N , $117.39653^{\circ}\text{W}$ [WGS84], 960m elev.). The stream habitat appeared to get even better below us, but we had no time to look. The helicopter collected us after 12:30. We attempted to find another spring with surface flow and a suitable landing site in the area, but couldn't find one, so the helicopter dropped us off at Bircham Spring. Most of the spring was dry and the trees were impenetrable, so we walked back to the fuel truck. Ted's group came back without seeing any amphibians, and we drove back to Ridgecrest. The day was hot and sunny, in the 90s, with some breeze.



Harto, Sean
2006

Journal

Eagle Lake, Lassen National Forest, Lassen Co., CA

June 18 Yesterday I drove from Ridgecrest up to Eagle Lake to join the MPT team doing survey work there. Along the way, I stopped at the H. platycephalus site at Lake George in the Mammoth Lakes basin to try to get buccal swab samples. There was a lot of snow all around, but the salamander ~~was~~ habitat was snow-free. I turned all the rocks in the immediate area and found only a single juvenile Hydromantes. It was too small for buccal swabs, but I took a ventral swab for chytrid testing - Lake George 1 [LG(1)]. I searched the area for about 20 min but saw nothing else.

Today Chad Martin, an undergrad working for the Lassen transect survey, and I went to the mouth of Pine Creek on the west side of Eagle Lake to look for frogs. We checked an array of pitfall traps there but found nothing. We then walked down to the wet area along the lake shore and found many B. boreas tadpoles and metamorphs, as well as 1 live and 3 dead Apa intermontana tadpoles and one Pseudacris regilla tadpole. We collected specimens of each (SMR 104-108). We also caught 2 adult Thamnophis elegans (SMR 102+103). The habitat was wet and marshy with tule reeds and grass. There were lots of birds including blackbirds, terns and white pelicans.

Next we headed up a dirt road to a section of Pine Creek west of Spalding. We searched for about 30 min. I chased a Sceloporus that escaped, and Chad caught a S. graciosus at 1:30 PM. The habitat was ponderosa pine forest with lots of downed wood and rocks. We drove back to camp, prepped specimens, and went road cruising at dusk but found nothing. The day was warm and sunny, and cool in the evening.



Rovito, Sean
2006

Journal

Lapouse Meadow, Eagle Lake Area, Lassen National Forest, Lassen Co., CA

June 19

Chad Martin, Allison Schultz, and I drove to Lapouse Meadow, just south of Eagle Lake. We parked at the SW end and surveyed from the edge of the meadow into open ponderosa pine forest to the west. We saw many Pseudacris regilla juveniles in the grassy areas, and I collected 2 (SMR 110 + 111). I found a large adult B. boreas under a log (SMR 112). In the middle of a grassy area in the forest, I saw what looked like an Elgisia among a pile of bark, but I only got a good look at the tail; it may have been a Sceloporus. I collected a juvenile S. graciosus that was foraging on a log. We surveyed this area from 9:15 - 10:50 AM and then drove north along the west edge of the meadow to an abandoned cabin.

We checked the wood and tin around the cabin but found nothing. Chad searched around the woodpiles in the meadow while Allison and I walked across the meadow. We made it about two-thirds of the way across; the meadow became wet, with water above the knee in places, and thick grass. We caught a P. regilla juvenile and a tadpole (SMR 120, 119) in a deep pool. In a shallower grassy wet area, we found a B. boreas metamorph (SMR 122) as well as a Thamnophis elegans adult (SMR 121). We saw 3 other T. elegans but let them go. We caught an adult T. sirtalis in a drier grassy area near the wet part of the meadow. Near the woodpiles, Chad collected a T. elegans (SMR 114) and 2 T. sirtalis (SMR 117, 118) under logs as well as a P. regilla (SMR 115). We stopped searching at and headed back to camp. We intended to night drive for herps, but ended up preparing specimens until after sunset. The day was fairly hot and partly cloudy.



Harto, Sean
2005

Journal

Brackman lava flows and Merrill Creek, Eagle Lake area,
Lassen National Forest, Lassen Co., CA

June 20

Chad and I drove north on A1 (Eagle Lake Rd.) to the Brackman lava flows where the mammal survey team had trapped earlier. We drove down the dirt road to Brackman lava flow until it became too rocky and then parked and began to search at 9:15. The area had ridges formed by lava rocks with sparse vegetation, interspersed with sandy sagebrush areas with juniper, a few pines and some shrubs. We saw many Sceloporus occidentalis on the lava rocks, and many S. graciosus on the rocks and on the sandy soil. The S. graciosus seemed to stay nearer to vegetation while the S. occidentalis were more on top of large rocks or in crevices. I caught two of each species and Chad caught 1 of each (CMM12-17) between 9:15 and 11:45. We did not see any other herps at this site (40.58621°N, 120.84012°W [WG584, 10m acc.], 1555m elev.).

We drove south and stopped at a small, rather stagnant muddy pond with sparse vegetation at the entrance to Christine Campground. (40.56727°N, 120.83918°W [WG584, 10m acc.], 1566m elev.) (CMM18, 19)

We quickly collected 2 P. regilla juveniles and one T. elegans (CMM20). We then drove south to Merrill Creek, drove ~100m W up a dirt road and began to survey at 12:20. I quickly found a S. graciosus along the creek (CMM21) and Chad caught another (CMM22). (40.54576°N, 120.80999°W [WG584, 11m acc.], 1579m elev.). We searched up a branch of the creek that opened up into a large meadow, but found nothing and stopped looking at 13:15. We went back to camp and prepped specimens. Jim McElwaine and Craig Mouty arrived in the evening; Craig and I went night driving around the lake but saw only 1 OR Coleler.



Rovito, Sean
2006

Journal

Area east of Eagle Lake, Lassen Co., CA

June 21 Craig Moritz, Jim McGuire, Chad Martin and I drove to Spalding and stopped to survey the area near Pine Creek where mammal trapping had been done (40.66074°N , $120.79124^{\circ}\text{W}$ [WGS84, 6m acc.], 1576m elev.), on the W side of Spalding Road. The area had yellow pine, sagebrush and lava rock. We searched from 11:00 - 11:35 and caught *S. occidentalis* and *S. graciosus* (13 total, to get Jim's catalogue numbers). We drove around to the north end of the lake and stopped in an area with sandy soil, sagebrush and grass in full sun. We searched for about 20 min in the sandy and rocky areas but got only 1 female *S. graciosus* at 12:10 on sandy rocks (JAM6 - 40.68896°N , $120.76606^{\circ}\text{W}$ [WGS84, 6m acc.], 1569m elev.); we saw many more *S. graciosus*. We then turned south on Hwy 139 and stopped 1.6 mi S of the intersection with A1 (JAM7). We searched up the rocky slope covered with sagebrush and juniper from 12:55 - 13:35 and caught 2 *S. occidentalis*. Chad found a Dead *Masticophis lateralis* with no head on a rock, but we didn't collect it. We stopped 13.1 mi S of the intersection with A1 to collect a roadkilled *C. constrictor* at 14:20 (JAM8) and then drove east of Susanville on A27. We went up Word Lake Rd for 1.9 mi N and searched between (40.41970°N , $120.42339^{\circ}\text{W}$ [WGS84, 6m acc.], 1300m elev.) and (40.42434°N , $120.42543^{\circ}\text{W}$ [WGS84, 6m acc.], 1285m acc.) between 15:45 and 17:30. The area was flat with sagebrush and very dry, with no trees. There was a ditch bounded by two rock walls. We caught several *S. occidentalis* on the rocks, as well as 3 *Grotaphytus licintra*. We then caught 4 *Lambelia uisigenii*, including a gravid female. Chad saw 2 *Aspidoscelis tigris* but

Krato, Sean
2006

Journal

Area east of Eagle Lake, Lassen Co., CA (cont)

June 21

couldn't nose them. We drove north on Hwy 395 and turned E at Ravendale, and then drove N to Red Rock (nothing there) and W on Juniper Ridge Rd. We stopped 10.8 mi. E of Ferno on Juniper Ridge Rd. (JAM10) and caught 5 *S. occidentalis* between 18:45 and 19:05 in a sagebrush area with scattered juniper. We caught a subadult *P. catenifer* on the road 8.9 mi E of Ferno at 19:15 (JAM11) and drove through Ferno and W on the Ferno-Grasshopper Rd. We saw about 15 pronghorn and a ^{greater} sage grouse along the road. We drove S on Hwy 139 and then on A1 back to camp without finding any more herps.

Grasshopper Valley and Eagle Lake, Lassen Co., CA

June 22

Today Jim, Craig, Chad, Allison Shultz, and I drove N on Hwy 139 into the Grasshopper Valley. We stopped at 2 cattle ponds on the E side of the road 4.9 mi. S of the intersection with the Ferno-Grasshopper Rd. (JAM12). We searched from 10:45-11:15 and collected a *C. constrictor*, 2 *I. elegans*, a *P. regilla* tadpole and 2 metamorphs. Jim saw another *C. constrictor*, and there were many more tadpoles. We drove N and found 2 DOR *C. constrictor* 0.6 mi. N of the Ferno-Grasshopper Rd. intersection; we took one (JAM13). We parked just south of here and searched a steep slope with basaltic rock outcrops and sagebrush-juniper vegetation from 11:45-12:45 (JAM13: 40.91415° N, 120.74738° W [WGS84, 8macc.], 1633 m elev.)

Hoar, Sean
2006

Journal

Grasshopper Valley and Eagle Lake, Lassen Co., CA (cont).

June 22

We collected 6 *S. occidentalis*, 4 *S. graciosus* and 1 *C. constrictor* on the slope. I walked down to a wet grassy area with small ponds near the road and caught a *C. constrictor* and a *T. elegans*. We next drove back along the W side of Eagle Lake on A1 and found a dead *C. constrictor* on the road ~1 m. W of Bucks Bay at 13:25 (JAM15). We drove to Mallatin Beach on the S shore of Eagle Lake and searched for 30 min between the parking lot, Mallatin Rd and the rock (JAM16: 40.55468°N, 120.76374°W [WG584, 8 m acc.], 1572 m elev.). We caught 3 *S. graciosus* but saw little else; it was quite hot by this point. We drove back to camp and Jim and Craig had to drive back to Berkeley. Chad and I prepped the DOR snakes as well as *Thamnophis* and *B. boreas* that Chris Conway brought us from Merrill Creek.



Rovito, Sean
2006

Journal

July 1

Virginia Lakes, Mono Co. and Convict Creek, John Muir Wilderness,
Inyo National Forest, Mono Co., CA

Yesterday I drove from Berkeley up to Sonora Pass. I offloaded the data from my logger at the 9000 ft sign onto the shuttle at 3:50 PM. I searched in the area below the logger near the stream where there were some mossy rocks with seepage and saw 1 adult female (SP17), 1 subadult (SP18) and 4 juvenile *H. platyrhynchos*. I got buccal and ventral swabs from SP17+18. I drove to Virginia Lakes and stopped at Sardine Falls on McKay Creek, on the E side of Sonora Pass, on the way. I searched a seepy area next to the falls and a little of the spray zone for ~30 min (1745-1815) but saw nothing. The habitat looked perfect, and Chris Fitchell found salamanders here last year.

In the morning I hiked west from Virginia Lakes looking for seep zones. I made it as far as a small lake past Cooney Lake (38.04803°N, 119.28121°W [WGS84, 13m acc.], 3158m elev.) but could see no suitable habitat, even using my binoculars. I left, drove to Convict Lake, and hiked up the Convict Creek trail to my data logger. The creek was extremely high and only ~10m of habitat was exposed. I searched it from 1400-1450 and found 7 juvenile salamanders, as well as the following ones that I swabbed (buccal/ventral):

Swab #	Age/Sex	Photo	Swab #	Age/Sex	Photo
CC17	subadult	1030018	CC20	subadult	1030024
CC18	subadult	1030019	CE21	adult ♀	1030030
CC19	subadult	1030020			

I also saw 2 subadults that escaped. I offloaded my data logger at 1516 and then pulled it out and took it with me. The day was sunny and warm, in the 80s.

38.30849°N,
119.62140°W
[WGS84, 5m acc.]
2676m elev.

Karto, Sean
2006

Journal

July 3

Sixty Lake Basin, Kings Canyon National Park, Fresno Co., CA

Yesterday, I met Sean Schorille at Onion Valley in the morning, and we hiked up Kearsarge Pass, down to the PCT, and over Allen Pass. On the north side of Allen Pass, we hiked down over lots of snow and then up "Shortcut Pass", between Allen Pass and the GO Lake Basin. About 200 m NW of the bottom of Allen Pass on the ridge, Sean found a subadult H. platycephalus. He then found 5 juveniles, all under rocks along snowmelt streams on granite, with grass and heather among the rocks. I found another ~~subadult~~ subadult at 1550 and collected it (SMR ¹³⁷ ~~137~~) (36.79549° N, 118.41489° W [WGS84, 5 m acc.], 3454 m elev.). We found the salamanders in the same area where Tate Junstall had seen them several years ago. We met Nance Noderburg and Tate in GO Lake Basin and stayed at their campsite.

We spent this morning waiting for Nance and Tate's supply helicopter and moving their supplies to camp. In the afternoon, we went to the lakes east of Mt. Clarence King (lakes #10-14) to do frog surveys and swabbed ~40 tadpoles (saw many more), but found no R. muscosa adults or metamorphs. We then hiked up to the waterfall ^{south} east of Mt. Clarence King, where Tate and I collected Hybomantes swabs last year. We started searching along the bottom of the waterfall and then climbed up the left (west) side. About halfway up the waterfall, Sean found an adult salamander at about 1500 under granite rocks with seepage. Sean, Tate and Nance proceeded to find 5 other salamanders in the area, but two of the subadults escaped before I could swab them. This is the same location where I got swabs from last year, so I continued with my Sixty Lake (2) [SL(2)]

Kanto, Sean
2006

Journal

July 3 ... Sixty Lake Basin, Kings Canyon National Park, Fresno Co., CA (cont.)
series of swabs:

Swab #	Age class/sex	Photo	Kind
SL(2)13	Adult male	1030047	Buccal, ventral
SL(2)14	Subadult	1030050	↓
SL(2)15	Subadult	1030051	
SL(2)16	Adult female	1030052	
SL(2)17	Adult male	1030054	
SL(2)18	Adult male	1030055	
SL(2)19	Adult male	1030057	
SL(2)20	Subadult	1030058	

Jate and Nance left to continue frog surveys at 3:30 and Sean and I continued up the waterfall. We found SL(2)17-20 on the upper part, and Sean found 6 more subadults and one juvenile which I did not swab. We stopped at the top of the waterfall, just below a large area of snow (36.82776°N , $118.43623^{\circ}\text{W}$ [WGS84, 8m acc.], 3467m elev.). We headed east from here and headed along the top of the ridge, and then dropped down from here (36.83030°N , $118.43424^{\circ}\text{W}$ [WGS84, 8m acc.], 3484m elev.). We continued our survey down to the lake, stopping at 1650. We headed back to camp after we finished the survey.



Kovits, Sean
2006

Journal

July 4

Sixty Lake Basin, Kings Canyon National Park, Fresno Co., CA

I hiked up the stream on the east slope of Mt. Cotter and started surveying the seep zone on the south side of this basin at 0930. I continued up the south slope, flipping rocks in the seep areas, but found nothing. I made it all the way to the base of Mt. Cotter at the top of the basin and then started down the north side. Most of the seep areas were dried up, but I found 3 juvenile H. platycephalus under small rocks in a fairly dry granite seep zone with a little grass and heather (36.82231°N, 118.43736°W [WGS84, 7m acc.], 3465m elev.) at 1115. This is the same spot where I found salamanders last year. I walked down to the small waterfall above the lake. The habitat looked perfect for salamanders, but I found only 1 Plethodon, which I collected for Sean S. It started to rain (some freezing rain) and thunder at 1200, so I went back to camp. Nance, Tate and Sean returned and we sat in the tent and drank lots of whiskey. I went to sleep at 4PM, waking up at 2100 to eat before going back to bed. Sean and Nance went to the seeps on the S side of Mt. Cotter, in the general area of my data logger. They swabbed 5 salamanders, including one found out on the snow, at (36.81178°N, 118.43306°W [WGS84, 6m acc.], 3370m elev.). No photos of the salamanders were taken.

<u>Swab #</u>	<u>Age/sex</u>	<u>Kind</u>
SL(1)14	Adult ♂	B, V
SL(1)15	Adult ♂	↓
SL(1)16	subadult	
SL(1)17	Adult ♂	
SL(1)18	Adult ♂	

Rovito, Sean
2006

Journal

Sixty Lake Basin, Kings Canyon National Park, Fresno Co. and
Charlie Canyon, Inyo Co. CA

July 5

In the morning, I walked to my data logger on the way to
Hardiner Basin. I offloaded and pulled out the logger at 0932.
I briefly searched for salamanders in the surrounding seeps, but
didn't find any. It looked like Sean and Nance had flipped
most of the rocks the previous evening. I hiked out over
Dean and Kearsarge Passes back to Onion Valley. It was cloudy
on the hike but didn't rain. I drove from Onion Valley to
Charlie Canyon and searched the habitat for ~20 min. I found
1 adult and one subadult N. platyrhynchos under rocks below the
overhang. I then found 2 juveniles beneath a log next to the
stream and a subadult under a rock next to the stream
on the other side. Finally, I found another subadult under a
lava rock outside the overhang (didn't swab this one). I took
the following swab samples:

Swab #	Age class/sex	Photo	Kind
ChC11	subadult	1030075	B, V
ChC12	subadult	1030076	↓
ChC13	adult ♀	1030077	↓

I offloaded and pulled out my data logger at 1936.
The evening was warm and cloudy.

Harto, Sean
2006

Journal

July 6

Shannon Canyon and Pine Creek, Inyo Co. and Lake
George, Mammoth Lakes Basin, Mono Co., CA

I drove to Shannon Canyon in the morning. I found my data logger sand-side down in the stream; it was apparently still working and I offloaded it at 0928 and took it with me. I searched the area around my data logger from about 0920-0940 and found a single juvenile *D. platycephalus* under the same rock as last time when I collected SMR35. I left it alone since this population seems very small. After lunch, I drove to Pine Creek and walked up the side canyon I called Pine Creek (2) - the one closer to 395. I found 2 salamanders while searching ~50m of habitat from 1400-1440, including ~15 min of swabbing. Both were under rocks next to the stream among nettles. I then walked up the other side canyon of Pine Creek, where my logger is, and found 2 adult salamanders under rocks near the logger at 1530. I took the following swab samples from both canyons:

Swab #	Age/sex	Photo	Kind
PC(2)11	adult ♀	1030080	B, vocal
PC(2)12	adult ♂	1030081	B
PC(2)13	subadult	1030082	B
PC(1)14	adult ♂	1030083	B
PC(1)15	adult ♀	1030084	B

I offloaded and pulled out my data logger at 1601.



Kevin, Sean
2006

Journal

Lake George, Mammoth Lakes Basin, Mono Co., CA (cont).

July 6

Finally, I drove to Lake George in the Mammoth Lakes Basin to try to get more samples from the site I found there last year. I walked past the usual site to a larger seep area just to the south (37.59714°N , $119.01509^{\circ}\text{W}$ [WGS84, 8m acc.], 2799m elev.) and started searching at 1810. The habitat looked perfect but I found nothing. At 1835 I walked over to the seep habitat where I've found salamanders before and searched until 1905. I found 3 juvenile *H. platyphallus*, one under a rock and the other 2 in mossy rocks. Water has stopped falling from above and this area will be dry soon. I think it would be necessary to search at night to find adults here, although I did look once at night last year and didn't see any adults. Today was warm, in the upper 80s, and mostly clear.

Half Moon Lake, Desolation Wilderness, Eldorado NE, El Dorado Co., CA

July 7

This morning I drove north to Lake Tahoe and past Fallen Leaf Lake to the Desolation Wilderness trailhead at the west end of the lake. I hiked up the trail to Half Moon Lake and searched a big waterfall and seep zone above the west side of the lake (38.87439°N , $120.14374^{\circ}\text{W}$ [WGS84, 10m acc.], 2523m elev.). The rock was volcanic but with lots of cracks, and lots of good rock-in-rock seep areas. It looked great for salamanders, but I saw none from 1555-1710. I did collect 1 *Plethodon* for Sean S. On the way back I saw a potentially good seep zone on the N side of Cracked Grog, to the south of me. It was warm in the morning, with rain at 1700 when it cooled off.

Ratto, Sean
2006

Journal

July 8

East Face of Sierra Buttes, Tahoe NF, Sierra Co., CA

This morning I drove up to Mt. Rose to look for seep zones. I couldn't see any from the road so I drove north to Truckee and then W on I-80 to Hwy 20, and then north on FS 18. I wanted to get to some of the high areas south of Sierra Buttes. The road became quite bad past Bowman Reservoir and my car was stuck briefly when a large rock got wedged behind the tire. I got it out with help from two other guys who drove by, and then turned around and drove back to I-80 without searching anywhere. I went north to Sierra Buttes and hiked up the dirt road to the east face, where Dave Wake, Bob Hansen and I found Hydromantes in 2004. There was much more snow and a lot of seepage this time - the upper part of the Buttes was covered in snow. I searched the northern side of the east face from 1655 - 1840, flipping many rocks, but found nothing. I returned with a light at 2115 and searched the same area until 2305 without seeing anything. 10 minutes of this time were spent walking on snow at the top of the Buttes; I searched from the end of the path on the N side of the east face all the way to the lowest point on the crest (39.59513°N , $120.64157^{\circ}\text{W}$ [WGS84, 6m acc.], 2360m elev.). I was surprised not to see any salamanders, given the seemingly good conditions. The day was fairly hot and sunny and the night was warm and cool.



Ronto, Sean
2006

Journal

July 18 Bullfrog Lakes, Golden Trout Wilderness, Sequoia NP, Tulare Co., CA
I hiked south from Mineral King in Sequoia NP over Farewell Bend. I left my pack in a grove of foxtail pines and walked with a daypack up a seldom-used trail to Bullfrog Lakes. I walked to the east end of the lower lake and started searching for salamanders at 1520. There were only a few small seeps here and none looked good. I searched along the creek to the upper lake and then began searching the extensive seep habitat on the northeast side of the lake around 1600. I found Desm. for Sean S. at 1605 (36.39803°N, 118.55389°W [WG584, 7m acc.], 3335m elev.). Much of the granite slope above the lake on this side was covered by extensive seeps and streams, with almost no vegetation aside from a few grasses, scattered herbs and moss. I found and collected an adult female H. platycephalus (SMR 138) at 1640 (36.40046°N, 118.55233°W [WG584, 7m acc.], 3405m elev.). I continued searching and found 6 more salamanders under rocks, 5 of which were around (36.40078°N, 118.55228°W [WG584, 7m acc.], 3417m elev.) - I swabbed all of these. I also saw 3 tiny juveniles. Many of the adults here were speckled with orange - unusual. It rained lightly in the morning and early afternoon, then cleared and was rather cool.

Swab #	Age class / sex	Photo	Kind
Bullfrog Lakes 1 (BL1)	Adult ♀	1030102	Buccal, ventral
BL2	Adult ♀	1030104	↓
BL3	Adult ♀	1030105	
BL4	Adult ♂	1030109	
BL5	Adult ♀	1030110	
BL6	Adult ♀	1030111	



Harto, Sean
2006

Journal

July 19

Franklin Lakes, Sequoia National Park, Inyo Co., CA

I hiked back over Farewell Bend and then up to Franklin Lakes. Sean Schmitt collected buccal and ventral swab samples from 8 *H. platycephalus* at this site earlier this year. I went to the same site he did, a large seep zone just above the trail on the north side of the lower lake. Many of the seeps were mostly dry, but some were still wet or even flowing. Vegetation was limited to a lot of moss, *Ribes*, grasses and a few small shrubs and scattered pines. I started searching at 1250 and found a juvenile salamander at 1308. I quickly found another under a mossy rock and collected both (SMR139+140: 36.42204°N, 118.55690°W [WGS84, 8 m acc.], 3256 m elev.). I also collected a bottle from here for Sean. I searched all wet seeps in the area until 1410 and found 3 more juveniles that were too small to swab. I could see other seeps on the south side of the lake as well as much higher up towards Franklin Pass. I hiked back down and was hit by thunderstorms from about 1500-1600; the weather had been warm and partly cloudy.



Porter, Sean
2006

Journal

July 20

Pear Lake, Sequoia National Park, Inyo Co., CA

I hiked from ^{the} Watchtower trailhead up to Pear Lake. Dave Gruber gave me a list of salamander sightings in the park, and several were on the Watchtower trail. The Watchtower itself as well as the area above it looked pretty good for salamanders, except that the area is now completely dry. I stopped at Heather Lake and searched a large seep zone from 1130-1230 (36.60008°N, 118.68683°W [WG584, 16m acc.], 2845m elev.) on the south side of the lake. There was lots of water dripping down and plenty of good rocks, so the habitat seemed perfect, but I found only 1 beetle for Sean. I continued up to Pear Lake. It started to rain and thunder around 1330 and continued intermittently until about 2100. I camped at Pear Lake and decided to search the extensive seep and waterfall habitat at the south end at night. I went down to Ranger Rick's cabin to find Nance, Sean, Andrea and Cherie Briggs, who I thought might be staying there. Nance and Sean gave me a *A. platyneurus* ^(SMR, H1) they had found the night before near a waterfall at the S end of Pear Lake after 22 hr of searching. I went back and searched much of the habitat at the S end of the lake from 2145-2330. There were at least 5 large waterfalls and a huge amount of great-looking seep habitat with lots of water flowing, but I found nothing. This area surely supports (or could support) a large population of salamanders, but they seem to be quite hard to find. The area I searched was around (36.59667°N, 118.66487°W [WG584, 22m acc.], 2979m elev.).

1894

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successful, and the thirtieth was very successful.

Rovito, Sean
2006

Journal

July 24 ^{Sierra} Jolly Lake, John Muir Wilderness, ~~the~~ National Forest, Fresno Co., CA
I started up from the McFee Pass trailhead at 11 AM and hiked to McFee Pass. I saw 2 Bufo candorus in meadow habitat on the trail above McFee Creek. A rather severe thunderstorm hit me as I hiked over the pass, with hail and lightning. I camped in a clump of pine trees on the flat area on the west side of the Pass. It stopped raining at 1915 and I hiked over to the salamander site NE of Jolly Lake. I found my data logger intact, downloaded the data at 1953 and pulled it. I started searching the seep habitat at 1955 by flipping rocks and then continued with a light after dark. There was plenty of water in the seep and I found 2 juveniles out around 2100. I then found an adult female, whose head was partly crushed by a rock as I tried to catch her. The salamander was severely injured, so I collected it (SMR142). I then found 2 adults on the right (east) side of the habitat in clumps of yellow Minulus. I stopped searching at 2152 and got dorsal and ventral swabs from the 4 salamanders I found (excluding the injured one).

<u>Swab #</u>	<u>Age class/sex</u>	<u>Photo</u>	<u>Kind</u>
TL7	Adult male	1030121	B, V
TL8	Adult male	1030122	↓
TL9	Juvenile	1030124	
TL10	Juvenile	1030126	

The relative humidity was 84% when the salamanders were found.



Hovto, Sean
2006

Journal

July 26

^{Sierra}
Bear Lakes Basin, John Muir Wilderness, ~~High~~ NE, Fresno Co., CA

Sean Schville and I hiked from the Pine Crab trailhead up to the Bear Lakes Basin, over Mt. Pass. On the way, we saw hundreds of Bufo tadpoles and several small toads (B. caninus, I think) in meadow habitat along the trail above Honeycomb Lake.

The weather was cloudy in the afternoon but it didn't rain. We camped in the Bear Lakes Basin just east of Cornet Lake. We searched in the seep area at the outflow from Cornet Lake towards Little Bear Lake from 2130-2220 but found no salamanders. This is where I found one last year. We did collect a lot of Nebria for Sean. I pulled my data logger out at 2210 and offloaded it at 2250. I was somewhat surprised not to see any salamanders, since conditions in the seep looked good, but this seems to be a hard site to find them at. There was still a lot of snow all around the basin.

July 27

^{Sierra}
Bear Lakes Basin, John Muir Wilderness, ~~High~~ NE, Fresno Co., CA

Sean and I walked down to the bottom of the seep habitat below Cornet Lake, to the area where I found a single H. platycephalus last year. We flipped rocks from 0934-0951 but found nothing. We then followed the creek down from Little Bear Lake west and then walked south to a large area of seep habitat, ~300m N of the Seven Tables Lakes west of Nee Lake. We started searching at 1045 and stopped at 1130. The habitat looked great, with extensive seepage over bare exfoliating granite with a southern or western exposure. Sean found an adult female H. platycephalus under a rock.



Hearts, Sean

2006

Journal

Sierra

Bear Lakes Basin, John Muir Wilderness, ~~1110~~ NE, Fresno Co., CA (cont.)

July 27 at 1110 (SMR143: 37.32710°N , $118.81872^{\circ}\text{W}$ [WGS84, 9m acc.], 3333m elev.). Despite extensive searching, we could not find any more. We then walked up Seven Hables Creek and up the outflow from Nee Lake. We briefly searched some seeps on the NW side of Nee Lake which looked quite good, but we found nothing. I could see another seep area on the S side of Seven Hables Peak that looked very good. We walked to a meadow area north of Nee Lake where we saw a small B. canorus (37.32600°N , $118.81271^{\circ}\text{W}$ [WGS84, 6m acc.], 3432m elev. ctt looked like a thunderstorm was about to hit, so we went back to camp, but it never rained. At night, Sean searched the snow around Cornet Lake for ice crawlers while I searched the seep habitat below Cornet Lake from 2100 - 2210. I found an adult male H. platycephalus at 2159 in a fairly dry crack in the granite on top of soil amidst red mountain heather (SMR144: 37.33171°N , $118.81122^{\circ}\text{W}$ [WGS84, 6m acc.], 3487m elev.). There were a few small pines in the area and sparse grass + herb vegetation. There were some seeps nearby without much water flowing in them; the salamander was to the west of the outflow creek (~10m) where most of the best seep habitat was. I climbed back up to the top of the seep area and headed back to camp, since I felt that I had searched the area extensively.



Rovito, Sean
2006

Journal

Conness Lakes, Inyo National Forest, Mono Co., CA

July 29 I walked up to Conness Lakes from Saddlebag Lake, since Chris Fichtel had found salamanders here. I stopped and searched the seeps near the waterfall in the outflow stream from Conness Lakes, E of the lakes. I looked from 1055-1110 but found nothing, although the habitat seemed fairly good (37.98033°N , $119.30080^{\circ}\text{W}$ [WGS84, 8m acc.], 3180m elev.). I searched some seep habitat on the north side of the basin briefly (~15 min), and then quickly searched a seep area in the middle of the basin with lots of rocks where I found a Nebria (37.97731°N , $119.30621^{\circ}\text{W}$ [WGS84, 8m acc.], 3207m elev.). I walked to the south side of the basin across extensive snowfields and searched excellent-looking seep habitat with many rocks, plenty of water and good mossy objects from 1223-1255 (37.97224°N , $119.30703^{\circ}\text{W}$ [WGS84, 6m acc.], 3300m elev.). I saw no salamanders but did collect more Nebria for Sean S. There was more good-looking seep habitat to the W but I had no time to search it. I left and drove up to Sierra Pass, where I offloaded and pulled my data logger at 1636. I searched the habitat right along the road and found two juvenile and ~~one~~ one large subadult H. platycephalus. I collected the subadult to give to Steve Helman, who wants to film the salamanders feeding. I drove home after this. The day was sunny and warm.



Raito, Sean
2006

Journal

Aug. 2

Wapama Falls, Hetch Hetchy, Yosemite National Park, Inyo Co., CA
I drove from Berkeley to Mariposa and then to Briceburg to get my data logger, which I offloaded and pulled at 1455. The 140 was closed by a rockslide after Briceburg, so I couldn't get to my logger at Hite Cove from there. I stopped at my logger site at the Bear Creek tributary, pullout between Briceburg and Midpines but could find no sign of my data logger - something must have happened to it. I drove back through Mariposa and then on 49 to Bagby, where I stopped to offload and pull my logger at 1610. Finally, I drove to Hetch Hetchy, where I camped. After dinner I walked along the N side of the reservoir to Wapama Falls, arriving after dark. The flow was greatly diminished from when I was here in April 2005. I searched a small area on the E side of the falls where lots of water was flowing down the granite face, but found nothing from 2050-2105. I walked around to the W side of the falls and searched the spray zone, which was quite wet and buffeted by spray, from 2127-2137 without success (37.96416°N , $119.76690^{\circ}\text{W}$ [WGS84, 11 m acc.], 1201 m elev.). The habitat looked pretty good for salamanders, but there were few wet rock-on-rock areas, and not many cracks in the granite walls. I think the salamanders probably don't live here. I noticed that Incewala Falls is now completely dry - it looked like a good site in April. The day was sunny and hot, and the night was clear.

Karto, Sean
2006

Journal

Bridalveil Falls and Cathedral Lakes, Yosemite National Park,
Mariposa and Inyo Counties, CA

Aug. 3

I started the day by trying to drive to the South Fork of the Merced, but Hwy 140 was closed before the confluence due to the rockslide. I drove to Cascade Creek and hiked up to the falls closest to the road. The area around the falls looked good for salamanders, but was inaccessible due to a large pool at the base of the falls and because of the sheer granite walls. I next went to Bridalveil Falls. After ~30 min of searching, I found it, offloaded the data at 1315 and pulled it out (37.71708°N, 119.64800°W [WG584, 14m acc.], 1275m elev.). I walked up to the falls, which were blowing from side to side erratically, making it hard to search. I searched most of the spray zone from 1325-1350, but water was pouring down periodically into the spots where I have seen salamanders before under rocks; I suspect they could not be under the rocks or on the ledges in these conditions. The cracks across the cliff might still offer them protection. I found a single dead, battered and decomposing H. platycephalus on the same ledge where I have found salamanders before and collected it (SMR145). Finally, I hiked into Cathedral Lakes near Inyo Meadows and camped there. I explored the seeps above the lake where I found a single H. platycephalus in August 2004 (SMR18). I started searching at 2045. There was extensive water flow over the granite in the seep areas and conditions looked very good. I found the first salamander at 2158 and proceeded to find 3 more. All were on the west side of the seep zone, in



Kovito, Sean
2006

Journal

Bridalveil Falls and Cathedral Lakes, Yosemite National Park,
Mariposa and Fresno Co., CA (cont)

Aug. 3

the same general area as that I found SMR18 in. I forgot my GPS and camera in the car, so no photo vouchers and I'll have to use the GPS point from SMR18. I saw 4 of the salamanders were out on dry rock near seeps and two were in seeps with mountain leather, Vaccinium, willow, grass and moss. I got buccal and ventral swabs for all four. I continued to search above this area afterwards until 2325, but found nothing more. I also collected 6 Plethodon for Sean S. The day was sunny and mild and the night was clear and fairly cold.

<u>Swab #</u>	<u>Age class / sex</u>	<u>Kind</u>
Cathedral Lakes 1 (Cal 1)	Adult ♂	B, V
Cal 2	Adult ♀	B, V
Cal 3	Adult ♀	B, V
Cal 4	Subadult	B, V

Smith Lake, Asolation Wilderness, El Dorado National Forest, El Dorado Co., CA

Aug. 10

After getting a very late start leaving Berkeley, I drove to the trailhead for Smith Lake, arriving at 5PM. I hiked up to the lake and found my data logger, which I downloaded and pulled at 1943. I began flipping rocks in the seep areas at 2000 and found 3 juvenile H. platycephalus, which I did not swab since they were small. The seep zone was somewhat dry except for two small streams flowing



Karto, Sean
2006

Journal

Smith Lake Resolution Wilderness, El Dorado NF,

Aug. 10

... down from big snow patches, which had plenty of water. I waited for the sun to set from 2025-2040 and then started searching with my headlamp. I found a subadult out at 2045, which I swabbed (38.85712°N, 120.18571°W [WGS84, 5m acc.], 2594m elev.). I found 3 more subadults, 2 adults and 2 juveniles in seeps in the area and swabbed all but the juveniles.

<u>Swab #</u>	<u>Age class/sex</u>	<u>Photo</u>	<u>Kind</u>
Smith Lake 12 (SmL12)	subadult (large)	1030149+50	B, V
SmL13	subadult (large)	1030151	B, V
SmL14	subadult ♂	1030152	B, V
SmL15	adult ♀	1030153	B, V
SmL16	subadult (large)	1030154+55	B, V
SmL17	adult ♂	1030156	B, V

The subadults were all quite big and may have been small adult females. I stopped searching at 2205, having covered most of the wet seep areas. The day was fairly warm and sunny and the night was clear and cool.



Risto, Sean
2006

Journal

"Fourth of July Chutes", Ellis Peak area, Eldorado National Forest, Placer Co.
and Conness Lakes, Inyo National Forest, Mono Co., CA

Aug. 12

Yesterday, I hiked out from Smith Lake and drove to the Echo Lakes trailhead. I hiked to the southeast end of Lake Aloha along the PCT. The west side of the lake looked like it had some seep habitat below large patches of snow, but I didn't have time to hike all the way there. I hiked out, since I couldn't see any nearby habitat to search, and camped at the Cascade Falls trailhead. This morning I met Will Richardson and Chris Seiger, grad students at the University of Nevada, Reno. Will had discovered a new population of *H. platycephalus* at a place called "Fourth of July Chutes" near Ellis Peak in mid-July. We drove up Barker Pass Rd. and parked in a turnoff at a trailhead near the top. We then walked up the trail, which goes from the road to Ellis Peak, until we reached a switchback near the top. We continued south off the trail from here, putting us on the talus slope just below the top of the ridge on the east side. We walked ~100 m to the base of the cliff below the ridge, where Will saw the first salamanders last time (39.06666°N , 120.22990°W [WGS84, 9 m acc.], 2473 m elev.). This spot had no snow, so we walked S and turned rocks around a small patch of snow but found nothing. We continued south to a large patch of melting snow beneath larger cliffs. We turned rocks on the talus slope next to the snow and found 2 juvenile and 2 adult *H. platycephalus*. All were under stones on moist soil from the melting snow, and 1 adult was under some of the abundant *Diuris pruriro* on the slope. I collected both adults (SMR 146 + 147: 39.06560°N , 120.22768°W [WGS84, 16 m acc.], 2484 m elev.).

Rovito, Sean
2006

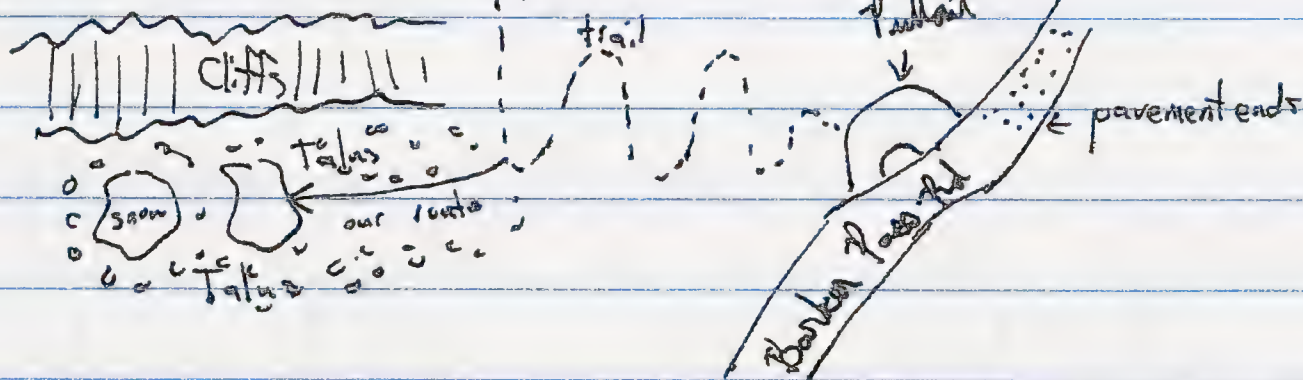
Journal

"Fourth of July Chutes," Ellis Peak area, Eldorado NF, Placer Co. and Conness
Lakes, Inyo NF, Mono Co., CA (cont)

Aug. 12

We searched another big snowpatch to the south but found nothing. The rest of the slope was too dry. The cliffs had mossy cracks that might be good habitat earlier in the season. This habitat is unlike any I have seen before, since the salamanders are actually in the talus on soil, and are confined to the snow's edge without any seeps. It makes me think that there could be many more sites like this one in the northern Sierra that could have salamanders.

To Ellis Peak trail along ridge top



I drove from Tahoe south to Yosemite and hiked from Daddlebag Lake to Conness Lakes, Inyo NF. I camped and went out at night to look for salamanders. I started searching on the north side of the basin at 2050 and found 1 *Neloria* (37.97972°N, 119.30647°W [WG584, 8m acc.], 3215m elev.). I walked ~~west~~ to a small seep zone where I found 3 subadult and 2 juvenile *I. platycephalus* at 2130. The seeps were along cracks in the granite, had very little water and had *Minutaria* and moss growing in them. I kept the two largest subadults (SMR148+149: 37.97705°N, 119.30956°W [WG584, 11m acc.], 3275m elev. I got swabs from the other subadult and one large juvenile; the other juvenile was too small to swab.



Ravito, Sean
2006

Journal

"Fourth of July Chutes", Ellis Peak area, Eldorado NF, Placer Co. and Conness
Lakes, Inyo NF, Mono Co., CA

Aug. 12	Swamp #	Age class/sex	Photo	Kind
	Conness Lakes 1 (CnL1)	subadult	1030179	B, V
	CnL2	juvenile (large)	1030180	↓

I walked further west along the base of North Peak to the north side of the highest lake in the basin. There was very extensive seep habitat here but I found nothing (37.97662°N , $119.31229^{\circ}\text{W}$ [WGS84, 8m acc.], 3347m elev.). I stopped searching at 2230 and returned to camp.

Jen Lakes, Yosemite National Park, Inyo Co., CA

Aug. 13

I hiked out of Conness Lakes in the morning and did a day hike to Jen Lakes. When I got there, I could see areas that had been seeps in many areas around the lakes, but all appeared dry. I went to the cliffs on the south side of the lakes. These cliffs clearly had very extensive seeps earlier in the summer but now only had a tiny wet area. I searched it from 1440-1500 but found only 1 Nebris (37.89692°N , $119.53140^{\circ}\text{W}$ [WGS84, 6m acc.], 2834m elev.). The seeps had nice mossy cracks with the yellow Mimulus I often see at salamander sites, along with grass and other vegetation. The habitat here seems like it would be quite good for salamanders earlier in the summer. There were no other nearby areas to search that I could see, so I hiked back out.



Risto, Sean
2006

Journal

Lyell Canyon, Yosemite National Park, Tuolumne Co., CA

Aug. 15 Yesterday, Sean Schiaville and I hiked from Tuolumne Meadows to near the top of Lyell Canyon. We camped in the meadow area beneath the upper bowl of the canyon, where Emily Rubidge, Jim Patton, Les Chow and Peggy Granata and Carol Patton were working. Sean and I searched some seep habitat just above camp to the east at night for ~30 min but found nothing. Today, we walked to the head of the canyon and searched an extensive seep area that stretched from near the canyon floor to almost the top of the ridge, on the east side of the canyon (37.75174°N , $119.25568^{\circ}\text{W}$ [WG584, 8m acc.], 3452m elev.). The seeps looked like spectacular salamander habitat, with lots of wet areas and grass, moss, *Minulus* and other vegetation. We searched from 1000-1115 but found no salamanders. We then searched another set of seeps at the very end of the canyon; these had almost no vegetation and looked like excellent habitat as well (37.74903°N , $119.26000^{\circ}\text{W}$ [WG584, 7m acc.], 3405m elev.). We searched from 1240-1320 but found no salamanders. In both areas, but especially in these seeps, some areas were frozen; made me wonder if the cold nights had caused the salamanders to retreat into cracks. We returned to the first seep (E side at top of canyon) with Emily and one of the botanists' friends who hiked in yesterday and searched from 2045-2200 without success. Emily and the other girl stayed in the bottom part of the seeps while Sean and I climbed nearly to the top. The day was mild and sunny, and the night was clear with lows below 0°C .



Kovito, Sean
2006

Journal

Finca Santa Julia and Finca La Chigula, San Marcos,
Depto. San Marcos, Guatemala

Aug. 25

Yesterday we left Guatemala City at 1300 and drove to Tecpan, Depto. Chimaltenango. Dave and Marvake Wake stayed below the town and searched for salamanders while Gabriela Parra, Carlos Nasquez, Antonio Muña, Ted Papenfuss and I drove to the microwave towers on top of Cerro Tecpan. We searched on top of the mountain in logs, under rocks and in roadbanks from 1655-1800 but found only Scoloporus and Mesaspis moreletii. Conditions seemed fairly good for salamanders - it was much wetter than last year, if still a little dry (GPS: 14.78461°N, 91.02238°W [WG584, 6m acc.], 2979m elev.). We met Dave and Marvake at the bottom and drove to San Marcos.

This morning, we drove from San Marcos to Finca Santa Julia, near San Rafael Pie de la Cuesta. We went to the coffee compost area and dug with potato rakes for 30 min, looking for Dermaphys, but found nothing. We hired 6 finca workers to dig in the compost, and ~~Carlos~~ Carlos stayed with them. They dug from 1300-1430 and found 3 adult and 1 juvenile D. mexicanus, as well as 3 Geophis nasalis (14.92711°N, 91.90362°W [WG584, 10m acc.], 1083m elev.).

Gabriela and the Wakes went to the nearby Finca El Zapote, where they found 3 Bolitoglossa occidentalis under banana leaves while the men were digging for caecilians (14.9267°N, 91.9115°W, 1040m elev.).



Kovits, Sean
2006

Journal

(cont.)

Aug. 25

Finca Sta. Julia and Finca la chusula, Depto. San Marcos, Guatemala
Ted, Antonio and I drove to Finca la chusula (owned by Ruben Perez) near Km. 253 on RN1. We stopped in a patch of forest near the entrance and searched in bromeliads from 1400-1520 but found nothing (14.94692°N , 91.86277°W [WG584, 9m acc.], 2160m elev.). The forest looked good and we opened ~70 bromeliads, and I searched in a few logs as well. It rained while we were searching. Next, we drove towards San Marcos and stopped at Km 260.6, between Aldea Pajon and Buena Vista. We searched in the roadside for ~25 min and I found a subadult B. morio (14.93999°N , 91.84894°W [WG584, 5m acc.], 2444m elev.) at 1620. I drove back to San Marcos, had dinner and then drove back on RN1. Ted and Carlos dropped off Antonio and I at Restaurant Divas (14.94948°N , 91.81579°W [WG584, 16m acc.], 2281m elev.) and then drove down to below Finca la chusula. Antonio and I walked down to Finca chusula along the road checking the roadside with lights. We searched from 2050-2200 but found nothing. Conditions seemed too dry despite the recent rain and the habitat didn't look good. Ted and Carlos drove up and met us at the entrance to Finca chusula; Carlos had found a Silvery and collected it.

dimidiata



Rovito, Sean
2006

Journal

Ridge above El Rincon, Depto. San Marcos, Guatemala

Aug. 26 After breakfast, the Wakes and Carlos went to Buena Vista (W of San Marcos) while Gabriela, Ted, Antonio and I drove to the village of El Rincon, just W of San Marcos on RNI. We turned off on a road that led up to the low point on the ridge (the "saddle") where many B. rostrata were collected in the 1970s. We parked where the road became impassible and hiked up to the saddle. We started searching at the top at 1030, but the habitat no longer looked good for B. rostrata. The formerly open areas had become overgrown with bushes and there was almost nothing to turn. We walked south and came to an area with some bromeliads. The first one we opened had a B. morio in it (14.95746°N , 91.85495°W [WGS84, 10m acc.], 2836m elev.). Antonio found 2 more in a mass of fern rhizomes (like a rotten log) nearby. We continued south along a path through secondary forest and found 4 B. morio under rocks and 1 Therapsis moreletii (14.95547°N , 91.84607°W [WGS84, 19m acc.], 2789m elev.). Further down, we found 1 B. morio and 2 small B. lincolni under rocks along the path (14.95289°N , 91.84604°W [WGS84, 10m acc.], 2779m elev.). The banks along the path looked good for Pseudoeurycea but we didn't find any. We finally arrived in a planted cypress area with many bromeliads. I found 1 B. lincolni under the bark of a fence post (14.95094°N , 91.84686°W [WGS84, 15m acc.], 2760m elev.). We pulled down bromeliads out of a cypress and found a tiny Hendrotitla bromelicea that was missing its tail. We then got ~10 more bromeliads from a large hardwood tree and found 4 more B. bromelicea. I got 2 more bromeliads from a



Kristo, Sean
2006

Journal

Ridge above El Fincon, Depto. San Marcos, Guatemala (cont.)

Aug. 26

... cypress tree and found one more adult B. bromeliacea. We then walked back uphill to the top of the saddle, where I found another B. lineolus. We searched for 1 hr on the saddle, from 1445-1545. I walked a bit north and found 1 Thryps and 1 B. lineolus juvenile under a piece of wood on a stump. Finally, we walked down along the road and I found one more B. morio under a rock about halfway down (14.95871°N, 91.84522°W [WG584, 9m acc.], 2751m elev.). We returned to the hotel and spent the evening preparing specimens and taking chytrid swabs from most of the salamanders. The Wakes and Carlos had gone to Buena Vista (~ Km 263, RNI) and had found a few B. lineolus and B. morio.

Volcan Chicabal and Volcan Siete Orejas, Depto. Quetzaltenango, Guatemala

Aug. 27

This morning, we all drove south to Volcan Chicabal. Dave's car couldn't make it up the road, so he, Marvalee and Ted stayed on the main road and went to a place called Las Rubes where they had found B. franklini in the past. The rest of us drove up to the parking lot of Chicabal, which is now a protected area. We walked up to the rim of the crater and down to the laguna, which took ~40 min. The entire area of the park is covered with what looks like primary hardwood forest. We started



Rovito, Sean
2006

Journal

Volcan Chicabal and Volcan Siete Orejas, Depto.
Quetzaltenango, Guatemala (cont.)

Aug. 27 ... to walk around the lake, flipping and opening logs and flipping the few rocks we saw. The forest was in great condition and there were many big trees with some bromeliads (which we didn't open) and a lot of bamboo. Conditions seemed perfect, but we found nothing from 1100-1300. Antonio finally found an adult *Pseudoeurycea* ^{gabekli} ~~gabekli~~ under the bark of a big log on the far side of the lake (14.78755°N , 91.65855°W [WGS84, 19m acc.], 2722m elev.). We searched until about 1500, with a 40 min lunch break but found nothing more. We searched in many excellent logs and I was surprised not to see more salamanders. We walked back to the car and drove through Quetzaltenango and up to the radio towers on Volcan Siete Orejas. We searched in the open areas and cypress plantation/secondary forest at the top for ~40 min in a cold rain but found nothing (14.79280°N , 91.58773°W [WGS84, 6m acc.], 3104m elev.). There were some stumps to look in and the habitat looked OK. We drove down to ~2900m and searched for ~20 min but found nothing, and the habitat looked poor. We drove to Xela, had dinner, and returned to San Marcos. Dave, Marisake and Ted had found 1 *B. morio* at Las Tubas, but said the forest was gone. They found a *P. rex* under a clump of mud in forest, 1 *B. morio* in a stump under bark and a *B. rostrata* in a roadbank at Km 222.6 on the road from San Juan Ostuncalco to Palestina de los Altos.



Rovito, Sean
2006

Journal

Cerro Chitajel and South transect area, Depto. San Marcos, Guatemala

Aug. 28

We spent the morning taking photos of salamanders in Buena Vista. The woman there found one small B. morio for us. In the afternoon, we drove out of San Marcos, turned off RMI at Pajapan, drove south through Jamel and then uphill towards the radio towers on Cerro Chitajel. We drove to the end of the road just below the towers and continued on foot. The area was largely corn fields but there were some open areas with rocks and bushes that looked good for B. rostrata. We started searching at 1520 and Antonio immediately found a B. lincolni under a rock (14.90916°N , 91.81213°W [WG584, 10m acc.], 3031m elev.). I continued uphill and found 1 B. lincolni under a dead agave in an open area and another slightly higher up in a stump in the forest. There was a lot of secondary forest farther up the hill which looked good, but I found nothing more. I hiked all the way to the antennae on top of the hill, where there is a house. There was another open area that looked good for B. rostrata (3240m elev.) but I had little time to search there. I returned to find that the others had found 1 more B. lincolni and 2 Craugastor golmani. We stopped searching at 1700 and returned to San Marcos for dinner. After dinner, we drove to the south transect by turning off at Pajapan from RMI, going a short distance to a T-junction, and going right and passing the school. We searched the roadbank here from 2005-2125 and found 1 B. morio, 2 B. lincolni, and 4 B. franklini of franklini x lincolni hybrids (14.93616°N , 91.84349°W [WG584, 9m acc.], 2475m elev.). All but the B. morio were in cracks in the only rocky area. We saw 2 more B. franklini and got a tail from one that was in a crack.



Rovito, Sean
2006

Journal

San Marcos to Tapachula, Depto. San Marcos, Guatemala and Chiapas, Mexico

Aug. 29

We left San Marcos and drove to Tapachula, Mexico, where we spent the night. Between San Marcos and Malacatan, we stopped in Aldea Colina II and searched in a banana grove next to a house from 1300-1320. We found 6 B. occidentalis under banana leaves (CRVA1035-1041: 14.91970°N , 91.95895°W [WGS84, 6m acc.], 768m elev.). We also saw many tiny Craugastor here. We drove on to Tapachula and were hoping to look for B. flaviventris on roads in the rain, but it only rained from about 1600-1730 and the roads dried out. We drove up the road to Nueva Alemania and found a Bufo marinus on the road ~1.7km from the turnoff to Carrillo Puerto (14.97764°N , 92.24729°W [WGS84, 6m acc.], 342m elev.). We swabbed it and released it later. We then took the road to Carrillo Puerto and found a Smilisca baudini 2.3km from the intersection with the road to Nueva Alemania (14.96002°N , 92.21344°W [WGS84, 8m acc.], 296m elev.). We then found a Bufo walkeri 3.7km up from the intersection with the main road. We drove further up the road but found nothing more; most parts were too dry for salamanders.

Matzintla area, Chiapas, Mexico

Aug. 30

We spent much of the day getting Mexican car insurance and getting the car through customs. We then drove to Matzintla, which took a long time because the road was badly damaged in last year's hurricane. We then drove back up to the pass on hwy 200 and

Rovito, Sean
2006

Journal

Motozintla area, Chiapas, Mexico (cont)

Aug. 30

... took the road north towards El Porvenir. We stopped at a dirt road heading S, Km from Hwy 200, and searched from 1800-1845. I found a Silvery in a bromeliad (15.36917°N , 92.33580°W [WGS84, 14m acc.], 2041m elev.). We then drove up the road and were dropped off at different points to search the road bank. I searched an area with high mossy rock walls, 20.5km by road from the highway. I found a juvenile and an adult B. franklini nigroflavescens on the rock wall between 2000 and 2100 (15.41922°N , 92.33464°W [WGS84, 12m acc.], 2532m elev.). Ted searched further up the road and Gabriela a few km further down; both found nothing. We picked up Antonio, who had found 2 Plectrohyla along a stream 14.1km by road from the highway (15.38387°N , 92.32753°W [WGS84, 15m acc.], 2259m elev.). Finally, we searched an area 3.1km from the highway for ~15 min and found another Silvery (15.34473°N , 92.29615°W [WGS84, 9m acc.], 2063m). We spent the night in Motozintla.

Cerro Mozotal, Motozintla area, Chiapas, Mexico

Aug. 31

This morning, we took the road from Hwy 200 to El Porvenir and drove to the microwave towers at the top of Cerro Mozotal. Gabriela immediately found a B. f. nigroflavescens under a piece of wood at 1210 (15.42621°N , 92.3496°W [WGS84, 8m acc.], 3016m elev.). I found another one under a rock a few minutes later. I searched in excellent-looking pine forest with lots of rotting logs and moss

Reiter, Sean
2006

Journal

Cerro Mozotal, Motozintla area, Chiapas, Mexico (cont.)

Aug. 31

... from 1210-1310 but found only a Bufo bocourti. We should have found Pseudoeurycea here but we didn't, even though the habitat seemed good. We drove km down from the top and searched along an abandoned road in secondary pine forest with some hardwood trees and many bromeliads from about 1400 to 1500. I found a Ceraphidion godmani under a rock (15.42999°N , 92.33536°W [WGS84, 8m acc.], 2871m elev.). The others got 3 B. f. nigroflavescens and 1 Mesaspis moreleti. We drove back to Motozintla in a very heavy rain and had to wait ~1.5 hrs for a landslide to be cleared. We drove from Motozintla south towards the town of Niquinil, but did not get far enough to find a good spot to work before dark. This area would be a good place to work in the future.

Cerro Ixtehuatz, San Cristobal de las Casas, Chiapas, Mexico

Sept. 1

We left Motozintla and drove to San Cristobal de las Casas. On the way, we stopped about 4km S of La Trinitaria to look for Bolitoglossa stuarti (16.08334°N , 92.04447°W [WGS84, 7m acc.], 1536m elev.). We searched from 1530-1600 under limestone rocks and in a few bromeliads in dry forest. The area was fairly moist and conditions seemed good, but we found nothing. We continued on to San Cristobal and drove to the top of Cerro Ixtehuatz, parking at the microwave towers. We searched on the roadbank with lights from 2000 until about 2100 in a light rain. We found 11 B. hartwegi, 1 juvenile and

Harto, Sean
2006

Journal

Sept. 1 Cerro Izontehuitz, San Cristobal, Chiapas, Mexico (cont.)
... 1 subadult B. rufibrata, 1 Bufo bocourti and 1 M. morio.
Conditions seemed good and I was surprised not to see more B. rufibrata; they were apparently much more common than B. hartwegi in the past. We spent the night in San Cristobal.

Sept. 2 Huitopee and San Juan Chamula, Chiapas, Mexico
We took chytrid swabs from our salamanders from yesterday, tailed frogs and went to the market in the morning. In the afternoon, Antonio and his partner Nora joined us and we drove to the Reserva Ecológica Huitopee, run by Brontura. The oak forest (Quercus rugosa and Q. crassifolia) was in good condition with lots of logs and some rocks to turn, and lots of moss. We searched from 1500-1600 and I found an adult B. hartwegi inside a stump. (16.75393°N, 92.68167°W [WGS84, 11m acc.], 2326m elev.). We then drove past San Juan Chamula towards Pantelho for 8.6 Km on the main road and then turned right onto a dirt road and drove 0.2 Km. We searched in the mud of the road bank and found 1 B. hartwegi and 1 B. lincolni in 30 min of searching (1700-1730) (16.84268°N, 92.69220°W [WGS84, 9m acc.], 2179m elev.). We drove 1.0 Km further and searched from 1740-1825, and found 3 B. hartwegi, 1 B. lincolni and 1 Graugaster glaucus (16.83866°N, 92.68642°W [WGS84, 5m acc.], 2196m elev.). We then drove back past San Cristobal and towards Tuxtla Gutiérrez on the free highway and took the road



Anto, Sean
2006

Journal

Sept. 2

Huitepec and San Juan Chamula, Chiapas, Mexico (cont.)

... to the TV towers on top of Cerro Huitepec, Antonio had collected B. rostrata here under logs in the past. We searched with flashlights on the roadbanks from about 1950-2050 but found nothing (16.73786°N , 92.68782°W [WG584, 10m acc.], 2674m elev.). The banks didn't have many good cracks and were rather dry despite the light rain. This site is probably best searched by day. We drove down and spent the night in San Cristobal.

Sept. 3

Berrigabal, Chiapas, Mexico

We drove to Tuxtla Gutierrez from San Cristobal and then on Hwy 190 to Ocozacoatlán. We went 27km from the town towards Malpas to find an area where Ted had found B. mexicana in bananas. We found only small, green banana trees in the area and didn't find anything in ~20min of searching. We then drove back to Berrigabal and went ~12km N of town to the end of a dirt road at El Pozo de Petroler. We looked in a few green banana trees nearby but found nothing. At dusk, we went to El Pozo de Petroler to look for Chalobates niger. We searched in the forest from 1945-2045 but found nothing (16.86197°N , 93.32191°W [WG584, 13m acc.], 1114m elev.). They have only been seen in winter (Dec/Jan) and the area seemed somewhat dry despite a light mist. There are still many large trees with buttresses, though, so the habitat seems intact. We will have to return in the winter.



Karto, Sean
2006

Journal

Cerro de los Monas, near San Lorenzo, Sierra de las Minas, Depto. Zacapa, Guatemala
Sept. 6 Today we worked on Cerro de los Monas in the Sierra de las Minas.
We drove from the main road, took the turnoff to Ojo de Agua and drove on a dirt road through a locked gate with a guard for the marble mine at San Lorenzo. We went up a slow but easily possible (in our 4x4 truck) 19.7 km from the highway to the marble mine and small village of San Lorenzo. We then turned onto a fairly good but seldom-used road leading N from San Lorenzo to Cerro de los Monas. From the Montagua Valley, the vegetation changes from dry forest to pine oak forest to a forest with some small bromeliads just below San Lorenzo. Above the level of the mine, the forest begins to have more bromeliads and gradually changes to excellent-looking cloud forest with large hardwood trees and many bromeliads. We drove up to 2200m and stopped where a tree with bromeliads had fallen across the road. Carlos opened one bromeliad and found a subadult male *Bolitoglossa* with webbed feet, a red-brown color and spots on top of its tail at 1330 (CRVA1042: 15.11328°N, 89.67802°W [WG584, 9m acc.], 2200m elev.). Ted said it was the same as the *Bolitoglossa* sp. near "Finca Planada" collected here (a few) and at nearby Finca Planada (many). We walked up the road searching mainly in bromeliads and found a tiny juvenile of the same species in a large bromeliad growing at the top of the bank, only a little off the ground. The habitat here was more disturbed so we walked back to the car and drove ~100m down the road. I found a *Gymnotus* sp. adult in a bromeliad in a pine tree (CRVA1044: 15.1123°N, 89.67793°W [WG584, 9m acc.], 2200m elev.). Ted found a *Sceloporus tenebrosus* here. We opened many bromeliads here but found nothing more. We drove down the road towards San Lorenzo,



Reiter, Sean
2005

Journal

Sept. 6 Cerro de los Monos, Sierra de las Minas, Depto. Zacapa, Guatemala (cont.)
... opening bromeliads and searching in banks and stumps until 1830 but we didn't find anything more. The habitat in this area was very good as well, and we could hear howler monkeys on the hill above us. We drove back down to the highway, and the pine forest below the marble quarry looked like good habitat for mostly terrestrial salamanders (like B. melana) but we had no time to search there. This area could use a lot more work in the future. The weather today was cloudy and warm.

Sept. 7 Near La Unión, Depto. Zacapa, Guatemala
We went to look for Cryptotriton maysoni, known only from the holotype. We drove from Rio Hondo and then to Quetzaltenango, and then south on RD-5 to La Unión. We went SSE by road from La Unión and stopped 6.6 km from town at an area of cafetales. On the way from town, we passed through primary cloud forest with huge trees. I started searching in bromeliads from cypress trees at approximately 1200 but found nothing. Carlos and Ted moved on to red bananas in the cafetal. Carlos quickly found an adult male salamander with brown speckling, webbed feet with somewhat triangular toes and black/brown speckled or mottled ventral coloration (14.93° 46' N, 89.27569° W [WGS84, 9m acc.], 1409m elev.) in a banana plant (CRA1049). It appears to be either a Honduran species we aren't familiar with or a new species. Ted also found 3 D. rufescens, and Carlos found a Smilisca baudini. I found a nest of angry wasps. We searched here until 1420 and then drove 0.6 km down



Parito, Sean
2006

Journal

Near La Union, Depto. Zacapa, Guatemala (cont.)

Sept. 7 ... the road away from La Union to another cafetal with more bananas. In 30 min of searching (1515-1545) I found 5 B. rufescens and Carlos found 3 more, all in bananas (14.93264°N, 89.27491°W [WGS84, 9m acc.], 1383m elev.). We drove back to La Union through the cloud forest, opening all bromeliads within reach along the road. The trees here are huge, and most of the forest appears to be intact primary cloud forest. Near La Union in pine forest, we found a female mouse opossum with 2 young in a bromeliad (14.95696°N, 89.28109°W [WGS84, 11m acc.], 1247m elev.). We searched bananas in 1 more cafetal, opposite Finca Santa Fe, 1.6 km by road from La Union. Ted found a B. rufescens in ~20 min of searching (14.95991°N, 89.28574°W [WGS84, 6m acc.], 1121m elev.) at 1835. We drove back to our hotel, and Carlos collected a DOR Bufo marinus 2.4 km by road from Rio Montagua on the way from La Union to the highway. The weather today was hot and sunny, with more clouds in the afternoon.

Cerro San Hil, Matanzas del Mico, Depto. Chimal, Guatemala

Sept. 9 Yesterday, we drove from Rio Honda to Santo Tomas, stopping at Quirigua. We stayed at the Green Bay Hotel and tried to go up the road to the towers on Cerro San Hil at night, but found out that the road is destroyed beyond the first kilometer due to storms this year. Carlos found some frogs (Rana berlandieri, Lophodactylus labialis) on the hotel grounds at night, along with a Leptodyra. We spent all



Rovito, Sean
2006

Journal

Sept. 9

Cerro San Ail, Montañas del Mico, Depto. Chimal, Guatemala (cont.)

... morning trying to get permission from FUNDAIO (Guatemalan NGO) to work on the reserve on Cerro San Ail, finally getting it in the afternoon. We drove up towards the GUATEL towers, parked at the guard station and started walking at about 1845. We walked up the road for ~1 km, then Ted turned back to search on leaves at night. I walked ~1 km more and then turned back. At this point we found several Rana berlandieri (collected 1) and Agalychnis tadpoles in a puddle (15.68777°N, 88.66544°W [WGS84, 12m acc.], 503m elev.) at 1945. I walked back, and collected 1 Craugastor along the way (15.68974°N, 88.66219°W [WGS84, 17m acc.], at 2027. I also saw a spider monkey. The forest was mostly secondary growth with some big trees, and lots of Heliconia and large leaved aroid plants that looked good for salamanders. Carlos and Hugo walked on for about 30 min more and found 4 Bolitoglossa mexicana out on leaves, starting at 2000. They found a large (~1.2m) Bothrops asper male on the trail and killed it to collect it, since they had no snake bag. They also caught a Sibon and an Amantodes. Ted returned with another Amantodes serrocha, a Craugastor and a Smilisca baudini. I stopped searching at about 9:15 PM and the others stopped shortly after (2130 or 2145). It started to rain heavily as we left, and Carlos got another Bufo valkei on the way back to the main road.



Kovito, Sean
2006

Journal

Lago Petén Itzá, Depto. Petén, Guatemala

Sept. 12

On Sept. 10, we dropped Carlos off at a bus stop and he left for Guatemala City. Ted and I spent the rest of the day driving to Petén; we stayed in El Remate. On the morning of Sept. 11, we visited Jikal-amazing. We spent the afternoon swimming around the northern part of Lago Petén Itzá, east and west of the Hotel Camino Real property, looking for Trachemys and mud turtles that Ted wanted, without success. We were told that turtles were easy to find at the Camino Real because they feed them. We set 3 turtle traps near a dock 4.1 km W of El Remate by road. On the morning of Sept. 12, we went to the Camino Real dock for the turtle feeding. There were many Trachemys scripta and I swam after one and caught it (SMR158). We then checked our traps and found we had caught a small Staurotyphlus (SMR159). We drove towards Belize and put a trap next to the road in a small pond 11.3 km by road E of Puente Chelín (intersection with Jikal road). We visited the ruins at Maxhá and returned to find a larger Staurotyphlus in the trap (SMR160). We spent the rest of the day searching for an aguada near Laguna Petenché, E of Santa Elena, mentioned in Jonathan Campbell's book as a good site for B. mexicana. We never found it, and only ended up with 2 Bufo from the shore of a large lake across from the entrance to the Villa Maya hotel, 2.6 km N of CA-13. We gave up and had dinner in Flores.



Porto, Sean
2006

Journal

Coban and Purulha, Deptos. Alta and Baja Verapaz, Guatemala
Sept. 14 Yesterday, we drove from El Remate, Peten to Coban, which took most of the day. We then attempted to find a cafetal called Finca Canaan, 13.5 km S of Coban, where B. helminthi had been collected in the past. We could not find this finca, and no one knew where it was. We didn't see any cafetales with red bananas in the area, so we drove NE out of Coban past San Pedro Carcha for about an hour into a coffee and corn-growing area. We didn't find any red bananas to search before dark, so we searched a few mediocre roadbanks; I found only 1 Smilax laudiana. This morning, we drove to Purulha and went SE out of ~~the~~ town over Puente El Arco towards a coffee growing area. Once again, we found no red bananas to search. We passed through cloud forest and opened about 8 great looking bromeliads but found nothing. The slopes on both sides had what looked like virgin cloud forest - would be good to return here with more time. We drove back to Guatemala City to meet Carlos and pack for our flight tomorrow morning.



Pinto, Sean
2006

Journal

El Cariche, Mpio. Fabio, Depto. Cundinamarca, Colombia
Sept. 28 I arrived in Bogotá, Colombia on the night of Sept. 25. The next morning, Juan Parra and I drove north to a small private nature reserve, El Cariche, just west of Fabio. Juan is working on his hummingbird project here. We set up his nets in the afternoon in a dwarf forest with lots of Ericoid shrubs and small trees, many ferns, lots of bromeliads, some Espeletia and a carpet of moss. I opened a few bromeliads and searched briefly but found nothing. After dinner, we walked to the Rio Chien, which begins at the reserve entrance and has a much taller forest with cedar trees, big ferns, and many bromeliads. The forest only covers the bottom and sides of the canyon and is bordered by eucalyptus. We searched from 2000-2200 along the creek but found nothing. There were two small waterfalls along the creek with excellent-looking moss-covered walls that seemed perfect for salamanders. The next morning, I helped Juan with mist netting and we caught several hummingbirds. I searched for about 2 hours in bromeliads, but most were quite full of water and I found nothing. It seems very dry here and the carpet of moss on the ground was only barely moist. At 1500, I found a Phenacosaurus under a shrub and collected it for Juan's friend Rosario who studies this group (SMR 163: 4.93007°N, 74.11208°W [WGS84, 29 m asc], 2876 m elev). I searched in bromeliads a bit more, and after dinner we returned to the mossy cascades along the creek and searched for ~45 min but found nothing. The day was sunny and fairly warm. This morning, I searched along the creek in logs, bromeliads and under rocks for ~45 min but found nothing. We mist netted until noon and then drove back to Bogotá.



Rosita, Sean
2006

Journal

Parque Natural Chicagué, San Antonio de Tequendama,
Depto. Cundinamarca, Colombia

Oct. 3

Bolitoglossa
sp. nov. →

Yesterday morning, Juan and I arrived in Chicagué, a private reserve outside Bogotá. We stayed in the upper camping area. The cloud forest here is in good condition, with lots of huge tree ferns, much bamboo, and fairly large trees including some *Podocarpus*. There are a few bromeliads but not many, and most are out of reach. We spent the day setting up mist nets for hummingbirds. Before dinner, we walked up to the mirador and I found a small *Bolitoglossa* (*adversa*?) under a rock in a grassy area on the edge of the cloud forest, along with 3 lizards (*Gymnophthalmidae*) at 1800.

I collected the salamander (SMR164: 4.60747°N, 74.30668°W [WGS84, 8m acc.], 2536m elev.). We searched from 2000-2100 with lights in the forest and on banks on the edge of the path, but found only a single *Eleutherodactylus*. The next day, I spent most of my time at the nets with Juan. I returned to the mirador at 1430 and found 2 more *Bolitoglossa* under a single rock in a small cleared area next to the path surrounded by ferns (SMR165+167: 4.60674°N, 74.30672°W [WGS84, 9m acc.], 2584m elev.). I quickly found a 4th salamander in the same spot as yesterday; it had been extremely dry but it rained a bit this afternoon, very lightly. Two of the salamanders are light brown in color, one is darker with light bands down its body and a light tail, and one is dark brown with lighter spots, especially on the tail. I flipped more rocks in the forest but found nothing. At night, I searched the same area as last night, along the trail below the camp towards the refugio, from about 1945-2030 but found nothing. The evening was clear and fairly cold.

Sean M. Rovito

2007

Catalogue #172-284

USA: California: El Dorado, Fresno,
Inyo, Mariposa, Tuolumne

Guatemala: Baja Verapaz, Chiquimula,
Escuintla, Zacapa



Rovito, Sean
2007

Catalogue

by road
Ferguson Rockslide, Hwy 140 0.6 mi W of confluence of
South and Middle Forks Merced River, Mariposa Co., CA
March 16 37.65513°N, 119.89921°W [WG584, 13 m acc.], 435 m elev.

Ensatina eschscholtzii xanthoptica SMR 172 ETOH, FF-liver

March 17 SMR 173 " " 100% ETOH, FF-liver

SMR 174 Batrachoseps diabolus FF-liver

SMR 175 " " " "

SMR 176 Diadophis punctatus FF-liver

March 21 SMR 177 Ensatina eschscholtzii xanthoptica juvenile 100% ETOH, FF-liver

SMR 178

SMR 179

SMR 180

SMR 181

SMR 182

SMR 183

SMR 184

SMR 185

SMR 186

SMR 187

SMR 188

adult

adult

adult ♀

adult

subadult/small adult

liver-FF 5/17/07

Confluence of South and Middle Forks Merced River, along
Hwy 140 on W side of S Fork Sierra NF, Mariposa Co., CA
March 21 37.65360°N, 119.88867°W [WG584, 9 m acc.], 428 m elev.

SMR 189-191 Ensatina eschscholtzii xanthoptica ETOH, FF-liver

SMR 192 B. diabolus FF-liver

1. The first part of the paper is devoted to a general discussion of the problem.	
2. The second part is devoted to a detailed analysis of the results.	
3. The third part is devoted to a discussion of the conclusions.	
4. The fourth part is devoted to a discussion of the future work.	
5. The fifth part is devoted to a discussion of the references.	
6. The sixth part is devoted to a discussion of the acknowledgments.	
7. The seventh part is devoted to a discussion of the appendix.	
8. The eighth part is devoted to a discussion of the bibliography.	
9. The ninth part is devoted to a discussion of the index.	
10. The tenth part is devoted to a discussion of the conclusion.	
11. The eleventh part is devoted to a discussion of the summary.	
12. The twelfth part is devoted to a discussion of the abstract.	
13. The thirteenth part is devoted to a discussion of the introduction.	
14. The fourteenth part is devoted to a discussion of the motivation.	
15. The fifteenth part is devoted to a discussion of the objectives.	
16. The sixteenth part is devoted to a discussion of the methodology.	
17. The seventeenth part is devoted to a discussion of the results.	
18. The eighteenth part is devoted to a discussion of the conclusions.	
19. The nineteenth part is devoted to a discussion of the future work.	
20. The twentieth part is devoted to a discussion of the references.	
21. The twenty-first part is devoted to a discussion of the acknowledgments.	
22. The twenty-second part is devoted to a discussion of the appendix.	
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25. The twenty-fifth part is devoted to a discussion of the conclusion.	
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28. The twenty-eighth part is devoted to a discussion of the introduction.	
29. The twenty-ninth part is devoted to a discussion of the motivation.	
30. The thirtieth part is devoted to a discussion of the objectives.	
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32. The thirty-second part is devoted to a discussion of the results.	
33. The thirty-third part is devoted to a discussion of the conclusions.	
34. The thirty-fourth part is devoted to a discussion of the future work.	
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36. The thirty-sixth part is devoted to a discussion of the acknowledgments.	
37. The thirty-seventh part is devoted to a discussion of the appendix.	
38. The thirty-eighth part is devoted to a discussion of the bibliography.	
39. The thirty-ninth part is devoted to a discussion of the index.	
40. The fortieth part is devoted to a discussion of the conclusion.	
41. The forty-first part is devoted to a discussion of the summary.	
42. The forty-second part is devoted to a discussion of the abstract.	
43. The forty-third part is devoted to a discussion of the introduction.	
44. The forty-fourth part is devoted to a discussion of the motivation.	
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50. The fiftieth part is devoted to a discussion of the references.	
51. The fifty-first part is devoted to a discussion of the acknowledgments.	
52. The fifty-second part is devoted to a discussion of the appendix.	
53. The fifty-third part is devoted to a discussion of the bibliography.	
54. The fifty-fourth part is devoted to a discussion of the index.	
55. The fifty-fifth part is devoted to a discussion of the conclusion.	
56. The fifty-sixth part is devoted to a discussion of the summary.	
57. The fifty-seventh part is devoted to a discussion of the abstract.	
58. The fifty-eighth part is devoted to a discussion of the introduction.	
59. The fifty-ninth part is devoted to a discussion of the motivation.	
60. The sixtieth part is devoted to a discussion of the objectives.	
61. The sixty-first part is devoted to a discussion of the methodology.	
62. The sixty-second part is devoted to a discussion of the results.	
63. The sixty-third part is devoted to a discussion of the conclusions.	
64. The sixty-fourth part is devoted to a discussion of the future work.	
65. The sixty-fifth part is devoted to a discussion of the references.	
66. The sixty-sixth part is devoted to a discussion of the acknowledgments.	
67. The sixty-seventh part is devoted to a discussion of the appendix.	
68. The sixty-eighth part is devoted to a discussion of the bibliography.	
69. The sixty-ninth part is devoted to a discussion of the index.	
70. The seventieth part is devoted to a discussion of the conclusion.	
71. The seventy-first part is devoted to a discussion of the summary.	
72. The seventy-second part is devoted to a discussion of the abstract.	
73. The seventy-third part is devoted to a discussion of the introduction.	
74. The seventy-fourth part is devoted to a discussion of the motivation.	
75. The seventy-fifth part is devoted to a discussion of the objectives.	
76. The seventy-sixth part is devoted to a discussion of the methodology.	
77. The seventy-seventh part is devoted to a discussion of the results.	
78. The seventy-eighth part is devoted to a discussion of the conclusions.	
79. The seventy-ninth part is devoted to a discussion of the future work.	
80. The eightieth part is devoted to a discussion of the references.	
81. The eighty-first part is devoted to a discussion of the acknowledgments.	
82. The eighty-second part is devoted to a discussion of the appendix.	
83. The eighty-third part is devoted to a discussion of the bibliography.	
84. The eighty-fourth part is devoted to a discussion of the index.	
85. The eighty-fifth part is devoted to a discussion of the conclusion.	
86. The eighty-sixth part is devoted to a discussion of the summary.	
87. The eighty-seventh part is devoted to a discussion of the abstract.	
88. The eighty-eighth part is devoted to a discussion of the introduction.	
89. The eighty-ninth part is devoted to a discussion of the motivation.	
90. The ninetieth part is devoted to a discussion of the objectives.	
91. The ninety-first part is devoted to a discussion of the methodology.	
92. The ninety-second part is devoted to a discussion of the results.	
93. The ninety-third part is devoted to a discussion of the conclusions.	
94. The ninety-fourth part is devoted to a discussion of the future work.	
95. The ninety-fifth part is devoted to a discussion of the references.	
96. The ninety-sixth part is devoted to a discussion of the acknowledgments.	
97. The ninety-seventh part is devoted to a discussion of the appendix.	
98. The ninety-eighth part is devoted to a discussion of the bibliography.	
99. The ninety-ninth part is devoted to a discussion of the index.	
100. The hundredth part is devoted to a discussion of the conclusion.	

Rovito, Sean
2007

Catalogue

■ 1.0 mi by road E of South Fork Merced on Hwy 140,
Sierra NF, Mariposa Co., CA

Mar. 21 SMR193 Ensatina eschscholtzii xanthoptica juvenile FF-liver
37.65965°N, 119.87608°W [WGS84, 9m acc.], 433 m elev.

Ferguson Rockslide, 0.6 mi W by road of S Fork Merced
River on Hwy 140, Sierra National Forest, Mariposa Co., CA

Mar. 21 SMR194 Batrachoseps diabolicus FF-liver
- UTM 11N 4171567 N, 244080 E [NAD83, 1.49m acc.], 471 m elev.
= 37.65562°N, 119.90106°W

Mar. 22 37.65355°N, 119.89797°W [WGS84, 10m acc.], 502 m acc
- all ~~batrachoseps~~ Batrachoseps but 2 found between this point and
road (1 at this point)

SMR195 B. diabolicus adult FF-liver, 100% ETOH-tail tip

SMR196

SMR197

SMR198

SMR199

SMR200

SMR201

alive to E. Jockusch

"

"

SMR206 Hydromantes brunus adult ♀ kept alive liver-FF 9/24/07

4171583 N, 243895 E UTM Zone 11 = 37.65572°N
= 119.90316°W

SMR202-203 B. diabolicus adult alive to E. Jockusch

SMR204 Desmognathus punctatus FF-liver

SMR205 Masticophis lateralis adult FF-liver, heart, muscle

Mar. 27 SMR207 H. brunus adult ♀ liver-FF kept alive 37.65544°N
SMR208 H. brunus subadult 9/24/07 " " 119.90174°W
[WGS84, 10m acc.]
515 m elev

Received of the Hon. the Secy. of the Navy
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Harto, Sean
2007

Catalogue

April 30	<u>Biotopo del Quetzal, Purulhá, Baja Verapaz, Guatemala</u>		
	15.2125°N, 90.2168°W [WGS84, 27m acc.], 1673m elev.		
	<u>Norops</u> sp.	CRVA 1100	liver - 95% EtOH 5/2/07
	<u>Crangator</u>	CRVA 1103	liver - " "
	15.2167°N, 90.21607°W [WGS84, 10m acc.], 1746m elev.		
	<u>Crangator</u>	CRVA 1104	liver - 95% EtOH 5/2/07
	15.21073°N, 90.21650°W [WGS84, 6m acc.], 1779m elev.		
	<u>Plectrohyla hartwegi</u>	CRVA 1107	liver - 95% EtOH 5/2/07
	<u>Norops</u>	CRVA 1101	↓
	<u>Norops</u>	CRVA 1102	
	<u>Crangator</u>	CRVA 1105	
	<u>Plectrohyla</u>	CRVA 1108	
	15.21083°N, 90.21753°W [WGS84, 33m acc.], 1762m elev.		
	<u>Crangator</u>	CRVA 1106	liver - 95% EtOH 5/2/07
	<u>Plectrohyla</u>	SMR 209	liver - ^{FF} 95% EtOH 5/2/07
	15.21205°N, 90.21936°W [WGS84, 12m acc.], 1752m elev.		
	<u>Bolitoglossa helmdrichi</u>	SMR 210	liver - ^{FF} 95% EtOH 5/2/07
May 1	<u>Finca Sachul, ~5km S of bridge at edge of Purulhá Depto. Baja Verapaz, Guatemala</u>		
	15.24342°N, 90.19303°W [WGS84, 11m acc.], 1689m elev.		
	<u>Bolitoglossa helmdrichi</u>	CRVA 1109	liver - ^{FF} 95% EtOH 5/2/07
	<u>B. helmdrichi</u>	SMR 211	" "
	<u>Dryadophis</u>	CRVA 1113	liver - ^{FF} 95% EtOH 5/5/07



Rauto, Sean
2007

Catalogue

May 1

Biotope del Quetzal, Purullia, Depto. Baja Verapaz, Guatemala

Up path from Researcher cabin

15.21421°N, 90.21858°W [WGS84, 16m acc.], 1671m elev.

SMR212 *Bolitoglossa helwigi* juvenile liver, tail - ^{FF}95% EtOH 5/2/07

On trail to World Wildlife Fund Cabin

15.21315°N, 90.21554°W [WGS84, 18m acc.], 1675m elev.

SMR213 *B. helwigi* liver - ^{FF}95% EtOH 5/2/07

CRVA1110 " "

CRVA1111 " "



At side gate of Biotope, S of main entrance

15.21346°N, 90.21579°W [WGS84, 11m acc.], 1663m acc.

CRVA1112 *Gyngonops verapacis* liver, tail - ^{FF, RNA Later}95% EtOH 5/2/07

May 2

5.2 km by road SE of center of La Unión, Zacapa, Depto. Zacapa, Guatemala

14.94615°N, 89.27648°W [WGS84, 13m acc.], 1540m elev.

Bolitoglossa conanti CRVA1114

CRVA1115 *Bolitoglossa conanti*

CRVA1116 " " - cut in half

SMR214 " "

SMR215 " "

liver - ^{FF}95% EtOH 5/2/07

" " "





Rovito, Sean
2007

Catalogue

Finca Planada de Margot, 18.7 km by road from CA-9, Sierra de las Minas
Depto. Zacapa, Guatemala

May 3

15.17008°N, 89.51448°W [WGS84, 6m acc.], 1727m elev.

SMR216 Gyptis aidraminensis adult female liver - FF 5/5/07

15.17217°N, 89.51818°W [WGS84, 6m acc.], 1844m elev.

CRVA1117 C. aidraminensis adult liver - RNA Later EtoH 5/5/07

15.17137°N, 89.51849°W [WGS84, 10m acc.], 1858m elev.

CRVA1118 Bolitoglossa juvenile liver - FF EtoH 5/5/07

15.16905°N, 89.51341°W [WGS84, 11m acc.], 1690m elev.

CRVA1119 Bolitoglossa helmdrichi liver - FF EtoH 5/5/07

May 4

15.17247°N, 89.50726°W [WGS84, 26m acc.], 1647m elev.

CRVA1120 Bolitoglossa juvenile whole animal, to MWZ tail - 95% EtoH 5/4/07

- cut while taking out of bronchial, then died

SMR217 Bolitoglossa zacapensis juv. liver - FF EtoH 5/5/07

SMR218 Bolitoglossa zacapensis adult " "

SMR219 Bolitoglossa helmdrichi adult " "

15.17343°N, 89.50710°W [WGS84, 7m acc.], 1661m elev.

CRVA1121 Bolitoglossa helmdrichi liver - FF EtoH 5/5/07

CRVA1122 Bolitoglossa

SMR220- Bolitoglossa zacapensis juv.

SMR221 Bolitoglossa zacapensis



Rovito, Sean
2007

Catalogue

Finca Planada de Margot, 18.7 km by road from CA-9, ^{Sierra de las Minas}
Depto. Zacapa, Guatemala same GPS as SMR221

May 4 SMR 222 Bolitoglossa zacapensis adult liver - FF Etoh 5/5/07
CRVA1123 Bolitoglossa
CRVA1124 Bolitoglossa
CRVA1127 Leptodeira

Approx. 2 km from Finca Planada de Margot on road to CA-9, ^{Sierra de las Minas}
Depto. Zacapa, Guatemala 15.16146°N 89.51617°W [WGS84, 11m acc.], 1722m elev.

May 4 CRVA1126 Gerrhonotus xerodamnis adult liver - Etoh (Carls) 5/5/07
CRVA1128 Sphenomorphus liver - " "

Espinilla,
4.7 km by road from CA-9 on road to Finca Planada de Margot,
Depto. Zacapa, Guatemala 15.10201°N, 89.52853°W [WGS84, 6m acc.], 388m elev.

SMR 223 Bufo salicaps adult liver - FF Etoh 5/5/07
CRVA1129 " " adult " "
SMR 224 Bufo marinus adult " "
CRVA1130 Bufo ~~marinus~~ lutkeni adult " "

5.2 km SE by road from center of La Unión, Zacapa, Depto. Zacapa, Guatemala
May 5 14.94545°N, 89.27599°W [WGS84, 28m acc.], 1531m elev.

CRVA1125 Bolitoglossa caranti liver - FF 95% Etoh 5/5/07
CRVA1131 " " "
SMR 225 " " "
SMR 227 Bolitoglossa rufescens juvenile



Puerto, Sean
2007

Catalogue

- May 5 5.5 km SE by road of La Unión, Zacapa, Depto. Zacapa, Guatemala
14.94374°N, 89.27726°W [WGS84, 12m acc.], 1485m elev.
SMR226 Bolitoglossa conanti adult liver - FF 5/5/07
EtoH (95%)
- May 6 Laguna Chapala, N. de Chapala, Depto. Chiquimula, Guatemala
14.55288°N, 89.64327°W [WGS84, 12m acc.], 1497m elev.
SMR228 Saxatilis stanleyi adult liver - FF 5/7/07
99% EtoH
- 14.55516°W, 89.64537°W [WGS84, 7m acc.], 1545m elev.
CRVA1132 Saxatilis stanleyi adult liver - FF 5/7/07
95% EtoH
CRVA1133 " " " "
- May 6 0.7 Km by road toward Jones from CA-9, Depto. Zacapa, Guatemala
15.06996°N, 89.53049°W [WGS84, 10m acc.], 264m elev.
SMR229 Bufo leuekei adult liver - FF 5/7/07
95% EtoH
- May 7 11.9 km by road from La Fronterita
Finca las Arandillas, above Aldea Pinalito, Depto. Zacapa, Guatemala
14.93358°N, 89.40782°W [WGS84, 6m acc.], 1369m elev.
SMR230 Bolitoglossa rufescens subadult 95% EtoH FF - liver, tail 5/8/07
SMR231 subadult " "
SMR232 adult liver - FF 5/8/07
EtoH
CRVA1134 adult " "
CRVA1135 juv. liver, tail - FF 5/8/07
95% EtoH
CRVA1136 B. conanti adult liver - FF 5/8/07
95% EtoH
SMR233 Bolitoglossa conanti adult " "
CRVA1137 " " adult " "



Rovito, Sean
2007

Catalogue

11.9 km by road from La Fronterina

Finca las Arandillas, above Aldea Pinalito, Depto. Zacapa, Guatemala

May 7

14.93358°N, 89.40782°W [WGS84, 6m acc.], 1369m elev.

SMR234 Bolitoglossa ~~adult~~ ^{canari} adult

liver - FF 5/8/07
95% ETOH

CRVA1138

CRVA1139

11.9 km by road from La Fronterina

Aldea Pinalito, Depto. Zacapa, Guatemala

May 7

14.94521°N, 89.41414°W [WGS84, 10m acc.], 1117m elev.

SMR235 Bolitoglossa ~~adult~~ ^{rufescens} adult

liver - FF 5/8/07
95% ETOH

SMR236 B. rufescens adult - no tail

SMR237

adult

liver - FF 5/8/07
ETOH

SMR238

adult

SMR239

juvenile

FF - tail 5/8/07

CRVA1140

adult

liver - FF 5/8/07
ETOH

CRVA1141

"

"

"

CRVA1142

"

"

"

CRVA1143

adult

liver - FF 5/8/07
ETOH

CRVA1144

juvenile

95% ETOH - tail 5/8/07

CRVA1145

Thorius

adult male

liver - FF 5/8/07
ETOH

Volcan Pacaya, Depto. Escuintla, Guatemala

May 10

14.3977°N, 90.6043°W [WGS84], 1965m elev.

SMR240 B. maculata

liver - FF 5/10/07
ETOH

14.3968°N, 90.6042°W [WGS84], 2085m elev.

SMR241 - 250 B. maculata

liver - FF 5/10/07
ETOH

- collected by Ted Papenfuss, Carlos Nájera Almazán, Edgar
Xavier Ruano + 1 student - I wasn't present



Karto, Sean
2007

Catalogue

Charlie Canyon, N Fork Oak Creek, Inyo Co., CA
May 21 36.83885°N, 118.27990°W [WGS84, 8m acc.], 1613m elev.
SMR251 *Hydromantes platycephalus* adult liver- ETOH 5/22/07
SMR252 " " " "
- collected with Sean Schille, for physiology work, died in captivity

Mouth of Sawmill Canyon, Inyo National Forest, Inyo Co., CA
May 21 SMR253 *Elgaria multicarinata* adult liver- FF 5/25/07
36.91242°N, 118.29037°W [WGS84, ^{no error} recorded], 1510m elev.

~ 100m S of Hwy 108 at 9000ft sign, Soda Pass,
Stanislaus National Forest, Inyo Co., CA
May 21 38.31²⁵⁴~~856~~°N, 119.66⁰³⁷~~037~~°W [WGS84, 7m acc.], 2780m elev.
SMR254 *H. platycephalus* small adult/subadult liver- FF 5/24/07
- collected for physiology work, died in captivity

Olancha Creek, Inyo National Forest, Inyo Co., CA
June 1 36.26535°N, 118.07087°W [WGS84, 26m acc.], 1719m elev.
SMR255 *H. platycephalus* adult
SMR256 " "

36.26482°N, 118.07347°W [WGS84, 7m acc.], 1779m elev.
SMR257 *Batrachoseps robustus* adult - lost in captivity
SMR258 " " subadult FF- liver 7/14/07



Risto, Sean
2007

Catalogue

Waterfall 1.2 km SE of Mt. Clarence King, Dixie
Lake Basin, Kings Canyon National Park, Fresno Co., CA

July 8

36.82752°N, 118.43613°W [WGS84, 5 m acc.], 3314 m elev.

SMR 259 Hydromantes platycephalus adult ♂

liver - FF 7/24/07

SMR 260 " " ♂

SMR 261 " " ♀

SMR 262 " " ♀

SMR 263 " " ♂

SMR 264 " "

SMR 265 " " ♂

SMR 266 " "

SMR 267 " " ♂

SMR 268 " " ♂

East side of Smith Lake, Desolation Wilderness, Eldorado National
Forest, El Dorado Co., CA

July 5

38.85672°N, 120.18557°W [WGS84]

SMR 269 H. platycephalus adult male (SmlPhys5)

liver - 100% EtOH 7/21/07

SMR 270 " " (SmlPhys3)

liver - FF 9/15/07

- both of these animals had developed brown spots on the venter,
and SMR 269 lost ability to walk - examine for chytrid
9/15/07 - rtPCR test indicates that SMR 270 is uninfected



Rosito, Sean
2007

Catalogue

July 20 Chuyo Creek, near waterfall in canyon SW of Lone Pine, ^{campground} Chuyo NF, Chuyo Co., CA
36.59099°N, -118.20118°W [WG584, 20 m acc.], 1989 m elev.
SMR271 Hydromantes platycephalus adult male liver-FF 7/24/07

June 16, 2006 -
June 16, 2007 Riparian area west of Twin Springs, Great Falls Basin, China Lake Naval Air Weapons Station, Chuyo Co., CA
38.85503°N, 117.397139°W [WG584, 10 m acc.], 967 m elev.
SMR272 Plestiodon
SMR273 Plestiodon
SMR274 Plestiodon
SMR275 Plestiodon
SMR276 Plestiodon
SMR277 Plestiodon
SMR278 Plestiodon
SMR279 Bufo punctatus juvenile
SMR280 " " " "
SMR281 " " " "
SMR282 " " " "
SMR283 " " " "
SMR284 " " " "

all specimens from this locality caught in pitfall traps filled with propylene glycol; then transferred to ⁹⁵% ETOH. Never fixed in formalin



Sean M. Rovito

2007

Journal

USA: California: El Dorado, Fresno,
Inyo, Mariposa, Mono, Tuolumne

Guatemala: Baja Verapaz, Chiquimula,
Jutiapa, Zacapa



Raito, Sean
2007

Journal

Feb. 14-15

Hite Cove, S Fork Merced River and Hell Hollow, Mariposa Co., CA
Ricardo Pereira and I drove out to Mariposa Co. to check his pitfall traps for Ensatina and to get more buccal swab samples for my project. We drove to the locked gate on the road to Hite Cove from Jorydale, arriving at 7 PM, and hiked down to the salamander locality. I got my data logger, which had clearly been moved and then replaced by someone, and it wasn't working anymore. The weather was cool and fairly humid, and the ground was quite moist since it rained a few days ago, so conditions seemed ideal. We searched from 20:15-22:20 and Ricardo found an adult female Hydromantes brunus under a rock on the east side of the path. I got buccal and ventral swabs from it (HC4). I found only 1 Ensatina xanthoptica out foraging, which I didn't collect. Surprised not to see more salamanders out. We hiked back up to the gate and camped.

The next day, we checked Ricardo's traps at Shingle Hill, Marble Gulch, Wagner Ridge and Kinsley and got a fair number of Ensatina, especially at Wagner Ridge. We took the traps from Kinsley and moved them to a higher elevation site to the east near Anderson Flat. We spent the night in Shingle Hill and drove back to Hell Hollow after dinner to look for Hydromantes. We started searching at 20:05 at the locality in the first draw up from Lake McClure near Bagby and I found an adult H. brunus almost immediately. Again, conditions seemed very good for salamanders. We found a total of 4 H. brunus, all of which I swabbed:

Raito, Sean
2007

Journal

Feb. 14-15

Hite Cove, S Fork Merced River and Hell Hollow, Mariposa Co., CA (cont)

HH(1)6	adult ♀	buccal + ventral	photos 104008 + 9
HH(1)7	adult ♂		104010 + 11
HH(1)8	adult ♂		104012
HH(1)9	adult ♂		104013 + 14

37.60771°N, 120.13684°W [WGS84, 8m acc.], 249m elev.
We searched here until 21:15.

We then drove up to the hairpin turn and searched from 21:30-22:30. I found a Batrachoseps diabolus and Ricardo found an adult gravid female H. brunus, which I swabbed [HH(2)7 - photos 104015 + 16, buccal + ventral] (37.59089°N, 120.12774°W [WGS84, 8m acc.], 449m elev.). We flipped many good rocks and, again, I was surprised not to find more salamanders. After an encounter with the Mariposa Co. police, we decided to head back and go to bed.

Feb. 16

N Fork Merced River at Indian Gulch, Mariposa Co., CA

We drove from Grovel Hill down to the junction of the N Fork Merced and Indian Gulch, where Mike Sutton had taken me last year. We began searching at 10:40 and I found 2 juvenile H. brunus immediately (37.65755°N, 120.05045°W [WGS84, 6m acc.], 421m elev.). We searched in the mossy rocks along the uphill side of the road with a lot of success, since the ground and moss were quite wet. I found 3 more salamanders big enough to swab plus 5 juveniles too small to swab. I stopped searching at 11:15 and began



Roots, Sean
2007

Journal

Ferguson Slide, near junction of South and Middle Fork of the Merced River, Mariposa Co., CA

March 22 Yesterday, Ted Papenfuss and I drove out to the rock slide site on Hwy 140 that we are surveying for *Catrans*.

and 1 *Ensatina*,
as well as some
Taricha and a *Gerrhonotus*
oregonus and a
Hyla punctatus

and Ted found a
B. diabolus (SMR 194)

We searched this same site last week but found only a few *Dendrobaena diabolus*. Last night, we searched the roadbank and nearby forest on the E side of the slide on the S side of the Merced. I found 104 *Ensatina e. xanthoptica* (collected 12- SMR 177-188) and 2 *Taricha t. sierrae* along the roadbank in mossy areas (37.65513°N, 119.89921°W [WGS84, 13m acc.], 435m elev.). We drove east 1 mile past the junction with the S Fork Merced and stopped for ~10 min to search a roadcut with some seeps. I found a juvenile *Ensatina e. xanthoptica* (SMR 193). We then drove back to the confluence of the South and Middle Forks and searched a mossy talus slope w/ buckeye and oak on the W side of the S Fork. The habitat looks ideal for *H. brunus*, but we found only 3 *Ensatina e. xanthoptica* (SMR 189-191) and 1 *B. diabolus* (SMR 192) in ~15 & 20 min of searching. The next day (3/22) we returned to the Ferguson slide and spent most of the day searching under rocks on the E side of the slide. We found 2 *B. diabolus* (SMR 202-203) and I got an adult female *H. brunus* under a rock in a nice area of mossy talus in the woods (SMR 206) (37.65355°N, 119.89797°W [WGS84, 10m acc.], 502m elev.). This area is in a more open part of the woods but is still shaded and looks like great habitat. This is the first new population of *H. brunus* that I have ever found. In total, we searched this area from 11:30 - 14:00.



Rantz, Sean
2007

Journal

Jorgessa Slide, near confluence of S and Middle Forks Merced River,
Mariposa Co., CA (cont.)

March 22

We continued to search the area closer to the slide and hiked up a trail, mapping with the GPS along the way. We made it up to about the top of the slide, where the habitat looked perfect for *H. brevis* - lots of mossy talus with oak and buckeye (and lots of poison oak). We searched on the way down, and Ted found a *Masticophis lateralis* (SMR205) and I found a small *Pseudoeurycea* (SMR204), both under rocks. We also found 7 additional *B. diabolus* at various locations on the E side of the slide (SMR195-201). Conditions for salamanders were fairly good, since it had rained the day before we arrived, so the moss and soil were reasonably wet, although not as much as would have been ideal for finding *Hydromantes*.



Harito, Sean
2007

Journal

Ferguson Slide and Bear Creek tributary, Mariposa Co., CA
March 27 Ted Papenfuss and I left Berkeley at 11:00 and drove to Mariposa to do our final survey of the Ferguson rocksides for Cisterns. It rained last night into this morning, so the moss and soil at the site were reasonably wet. We searched the east side of the habitat on the S side of the river from 15:30-18:30 but I found only 3 *B. diabolus*. There is a huge amount of mossy talus above where I found the *H. brunus* last time that looks quite good. After dinner, we walked up the trail near the E edge of the slide and searched from 20:30-23:00 with lights. Ted found 3 *H. brunus* out foraging in relatively dry areas near mossy rocks - one was in some dry leaf litter. We collected the two biggest - an adult female (SMR 207) and a subadult (SMR 208) (37.65544°N, 119.90174°W [WGS84, 10m acc.], 515m elev.). ~~SMR 208~~ I took the third one to swab, and will return it tomorrow:

FSI (Ferguson Slide I) subadult B+V photo 1040137
I also saw 1 *Taricha torosus*, 1 *Erythronium xanthoptica*, and 1 *B. diabolus* out foraging.

On the way back to Mariposa, we stopped at the tributary of Bear Creek where I put my (missing) data logger. In about 15 min. I found 3 *H. brunus* in the culvert, which I swabbed:

BC1	sex	age	type	photo
	♀	adult	B+V	1040140
BC2		subadult	↓	1040141
BC3		juvenile	↓	1040143

The temperature was in the 50s today, and in the 40s at night.



Hosto, Sean
2007

Journal

March 28

Ferguson Slide and Bear Creek tributary, Mariposa Co., CA

JP and I spent most of the day mapping less suitable areas around the slide with the submeter accuracy GPS.

We saw no salamanders in this area. We drove to the same culvert in the tributary of Bear Creek as yesterday and searched on the hill above. The habitat looks really great for H. bruneri, but I found only a juvenile Grotalus dragoni under a rock. After dark, we searched in the culvert and I saw 2 H. bruneri, one of which escaped into a crack. I swabbed the other one.

#BC4 subadult buccal only photo 1040144

I also saw 1 Taricha and 1 Ensatina. The weather was warm and mostly sunny today, but the temperature dropped rapidly after sunset and it was quite cold when we saw the salamanders out.



Hovts, Sean
2007

Journal

April 30

Biotope del Intero, Purulhá, Depto. Baja Verapaz, Guatemala

I flew to Guatemala City overnight with Ted Papenfuss. We met Carlos Nájquez and his friend, Gustavo, who is interested in working with salamanders. We drove to the Biotope del Intero near Purulhá, where we had gotten permission to collect. We started searching along the shorter loop trail at 18:45 as it became dark. We walked the short loop with lights until 21:00. Carlos got 2 Eleutherodactylus, and Ted got a Craugastor and a Eleutherodactylus. I found a Thorius, 2 Craugastor sp., a different Craugastor sp. and saw a Eleutherodactylus in a high bromeliad that escaped. I also found an adult male Bolitoglossa helminckii foraging out on a Heliconia leaf. Conditions were rather dry, although it had rained the day before, and the temperature was mild. I think conditions are good for bromeliads but perhaps not good for looking under cover objects.

May 1

Finca Sachat and Biotope del Intero, Purulhá, Depto. Baja Verapaz, Guatemala

We got a fairly late start today, since I barely slept the night before. We drove to Purulhá and then 5 out of town and stopped to talk to Don Gregorio Chocó Xel, who owns Finca Sachat, where Gustavo has worked before (tel: 59642195 / 54870435). He owns 3 caballerías of forest that he wants to set up as a private nature reserve. We worked in good secondary forest on his land from 10:30 - 12:30. We mostly opened bromeliads (50-80 total) but I also searched in logs and under bark.



Probst, Sean
2007

Journal

Finca Sachut and Biologo del Intero, Peten, Depto.
Baja Verapaz, Guatemala (cont.)

May 1

... Ted and I each found a B. helmdrichi; both were in bromeliads. We decided that we should search some primary forest as well, so we headed back to the Biologo after lunch. We walked up the trail from the guards' area to the researchers' cabin (in construction) and searched bromeliads and some logs from 15:00 - 16:30. I found a juvenile B. helmdrichi in a huge spiky bromeliad. We then walked over past Campamento 1 and up the road/path to the World Wildlife Fund cabin. We opened quite a few bromeliads along the way, continuing up until the trail ended above the cabin: I found 2 B. helmdrichi and Carlos got 1. We turned around and were ready to leave, but opened a few bromeliads along the way that we missed on the way up. I opened a smallish one and got a subadult Cryptotriton verapacensis! I was very excited, since this species is the main reason we came to Peten. The venter is gray-brown, not yellow as in the one from the Sierra de las Minas. It got dark and we drove to the Hotel Longorone, near ~~the~~ Rio Hondo, Depto. Zacapa.



Karto, Sean
2007

Journal

May 3

Finca Planada de Margoth, Depto. Zacapa, Guatemala

We met Julio Vargas in the town of Las Delicias after breakfast and drove through the town of Espinilla, through Finca El Cedral and arrived at his finca, which is called Planada or Margoth. He remembered Eric Koloff, who collected ~~mammals~~ mammals and salamanders here in the 1970s. He sent a man who lives in the village of Moran, Rodrigo Morales Aparicio, with us to the spot where he said Koloff collected salamanders. The area around the finca is mostly second growth forest or scrub, but Rodrigo cut a path uphill to an area with bigger trees, which appeared to be primary forest that had been selectively logged (perhaps). There were many broadleaf trees with a lot of bromeliads and epiphytes and a lot of big tree ferns. We started cutting down bromeliads at 12:10 and worked our way uphill. I found a Cryptotriton ~~serripinnis~~ ^{sierramensis} (SMR 216) in a bromeliad after a short time in a nice area of forest. It looked like the one we found on Cerro de los Monjes - it has a yellow venter, unlike the grey venter of C. serripinnis. It was also extremely active and actually jumped when disturbed - I have never seen a salamander do this before. We continued uphill through some less good secondary forest, and then got to the start of what Rodrigo said was a huge stretch of primary forest uphill. Carlos found a big C. sierramensis in a bromeliad here (CRVA 1117). We continued uphill and got to an area with huge trees and many bromeliads. I found a small Bolitoglossa helwigi or zacapensis (CRVA 1118) in a bromeliad. We continued

Karto, Sean
2007

Journal

May 3

Finca Planada de Margott, Sierra de las Minas, Depto. Zacapa, Guatemala
(cont)... to work in this area but found nothing more. I'm sure that if we had more time to work here, we would have found more salamanders. It started to rain at 17:40 and it became hard to work, so we stopped for the day and started back, getting soaked in the process. It stopped raining by the time we got almost back to the house. We cut down three very big bromeliads from a pine tree on the edge of the forest and got a big B. helminchi - a nice way to end the day. We returned to the house, where Don Julio was waiting for us with coffee and dinner ready - he really went out of his way to host us. He told us stories about his life and plans for the finca - he wants to build some cabins and start an ecotourism program. He says that he has made a big effort to conserve the forest, and it appears to be true.

May 4

We woke up early this morning and went out with Rodrigo after breakfast along an old road that goes down from the house. After crossing 3 creeks, we walked uphill into some primary forest. We started opening bromeliads at 9:00 and found 2 Bolitoglossa in bromeliads, one of which lost its tail and later died. I think that the larger, whole one is Bolitoglossa zacapensis, the new species we are describing from here. Just up the road, we found 2 more Bolitoglossa in bromeliads, at least one of which is the new species, I think. B. zacapensis has ^{more} ~~from~~ less webbed toes than B. helminchi.

Rivito, Sean
2007

Journal

May 4

Finca Planada de Margott, Sierra de las Minas, Depto. Zacapa, Guatemala (cont.)

Rodrigo told us that lots of animals are still seen in these mountains, including jaguars, pumas, ocelots, tamarindos, quetzals, and even perhaps giant anteaters, which he has not seen but other people say they have.

Further up the trail, we caught 7 more Bolitoglossa in bromeliads and 1 Leptodeira, which may have been in a bromeliad. We opened a ton of bromeliads (probably >100 all day), including some from huge old trees. We worked up to a height of 1684m and searched until 14:48. We walked back to the finca and started back down after having coffee with Don Julio. On the way down, we stopped to cut down a few bromeliads in an area of cloud forest with pine trees and Carlos and Justo got a small C. sedraminensis. We kept going and opened the few bromeliads in the drier pine forest that we could reach, but found nothing. In the town of Espinilla, we started seeing toads on the road. We collected 2 Bufo valliceps, 1 B. marinus (and saw a few more), and 1 B. inethoni, which is a beautiful green-yellow color. It was late by the time we finished eating dinner, so we didn't tissue anything. We had an extremely productive and successful trip - this was the main reason we came to Guatemala in the dry season.

Barrio, Sean
2007

Journal

May 5

La Union, Zacapa, Depto. Zacapa, Guatemala

We spent the morning tussling and preserving all the animals we collected over the last 2 days. We then drove back to the cloud forest at La Union to search for the elusive Cryptotriton monzoni. We returned to the same spot where we finished last time, since the forest was good and many bromeliads remained. We worked there cutting down bromeliads from 15:00 - 17:20. Carlos found 2 B. conanti and Ted got 1 more. Carlos also found a B. rufescens, the first I have seen in a bromeliad. The forest was very dry and bromeliads were the only wet spots anywhere. We drove over the hill back towards La Union, but the forest was extremely dense with few bromeliads, and we got nothing. There are lots of great logs in this forest for work in the wet season. Finally, we drove back over the hill to near where we started (away from La Union) and opened about 6 big bromeliads right along the road; I had a B. conanti. It was too dark to do more work, so we drove back to the hotel. In total, we searched from 15:00 - 18:30. The weather was somewhat hot and cloudy.

May 6

Laguna Ipala, Volcan Ipala, Depto. Chiquimula / Jutiapa, Guatemala

We set out early to search in the cloud forest atop Volcan Ipala. We drove south of Chiquimula and took a dirt road ~~to~~ to the town of Ipala - it turned out that there is now a fast, paved road from Chiquimula to Ipala that

Rovito, Sean
2007

Journal

May 6 Laguna Chapala, Volcan Chapala, Depto. Chiquimula, Guatemala (cont.)
... we should have taken. We parked on the W side above a small village and walked ~45 min up; it was fairly steep and extremely hot. There is thorn scrub all the way up to the top on this side. We had to wait at the CONAP guard station while they found someone to accompany us - it is a reserve and they were rather particular about our permits. Our guide didn't seem to care as we cut down some of the many bromeliads in cypress near the entrance, where I found a Scinax staufferi. We then went to the drier ^{north} ~~south~~ shore where we cut down many bromeliads but found nothing. This area has big trees with more huge bromeliads than I have ever seen. We ate lunch and then walked to just above the mirador, where I found 2 more Scinax in big bromeliads as it rained lightly. We walked over to the wetter, N-facing south shore and searched in bromeliads first in the natural broadleaf forest and then in the extensive area of planted cypress, but found nothing more. In all, we searched from 12:00 - 17:00 and probably opened >100 bromeliads. It seems like some species of salamander must be here, although perhaps not, given the extreme isolation of this forest. We could see Volcan Suchitlan to the SW - this seemed like a great place to work. Mustaro said Manuel Acevedo found a Bolitoglossa sp. there. This entire area needs much more exploration, and I hope that I can return to Volcan Chapala. It's an incredibly beautiful place. On the way back, we collected a Bufo luetkeni in the town near Julio ^{Nargos'} house.

Roiter, Sean
2007

Journal

May 7

Aldea Pinalito, in mountains E of Zacapa, Depto. Zacapa, Guatemala
For our last day of the trip, we tried to get to an area in the mountains east of Zacapa where the map shows a dirt road going near 1700m. We set out early, drove through Zacapa to La Tronquera, and then took a dirt road that branched off to the left at a creek. We drove on this road, which was awful, for ~40min until we arrived at a locked gate, where we had to stop. We could see forested mountains from here, but apparently the land is all private. We need to get better maps. We drove back down, got better directions, and went on another dirt road that goes out of La Tronquera to Matanzas. The road climbs steeply and soon enters oak and then pine forest. We eventually reached a puesto de salud, and continued straight until we arrived at Aldea Pinalito, where there is a mission run by Americans - Michael and Rocky Boone (52058135 - cell, 24311160 - house, michaelandrocky@mac.com). They told us that the turnoff for Matanzas is at a soccer field near the puesto de salud, and that it goes up to the cloud forest. They also told us that we could walk up to the forest in 30min. We quickly checked some red banana trees in the area of their health clinic and found 4 *B. rufescens*. We left a big bag with some kids who seemed willing to search more and walked up a steep path out of town through cattle pasture with 4 boys from the village. It was extremely hot and it took us, more like 45 min to get to an area on top of the ridge where the forest begins. We worked in a small, rather



Kinto, Sean
2007

Journal

May 7 Aldea Pinilito, mountains E of Zacapa, Depto. Zacapa, Guatemala (cont)
isolated fragment and another area just on the edge of the forest. The cattle pasture seems to meet primary cloud forest here, and we could see many big trees in the forest. There were areas of the ridge much higher than where we were that looked spectacular. We searched in bromeliads (including the 4 boys to varying degrees) and found many salamanders in a short time (16:00-17:40). Carlos, Ted and 1 boy, Daniel, found 3 B. rufescens, 3 B. conanti and 2 black salamanders that may be B. lunni in the more isolated fragment, while Gustavo, 2 boys and I found 1 B. rufescens, 1 B. conanti and 1 B. lunni (?) on the edge of or in the cloud forest. I think we could have found many more salamanders if we'd had more time. There should be both B. dollfusii and C. monzoni here, and the forested hills seem like a better place to look for Cryptotriton than at La Unión, which we could actually see to the E on the way up. Our guides told us that there is a hut of some sort (apparently w/ no roof) where one can stay in the forest. This seems like a very exciting place for future work. We walked down, since it was near dark, and found out that the kids (4 or 5) had collected 6 more B. rufescens in town, for a total of 10. This is the most salamanders in a day on this trip, with little effort. We drove back to Zacapa in the dark and took swabs for chytrid from the salamanders we collected at the upper site. This was a great end to the trip for me.



Karto, Sean
2007

Journal

May 21

Douglas Pass, Inyo Co. and Owens Valley, Inyo Co., CA

Sean Schaeffer and I drove up to Douglas Pass to get salamanders for my physiology experiments. I immediately found 2 in seeps below the road ~~near~~ near the 7000 ft sign. Both were small adults or subadults (SP Phys 1+2). We walked up to the cascade where I found many in 2005, but it was covered in snow. We walked back to some small trickles of water on a west-facing slope above the small creek that leads to the road, a spot where Sean got some swabs for me. We found 2 more subadults / small adults (SP Phys 3+4) by turning talus along the wet areas, and saw about 5 juveniles. In all, we searched for ~40 min here. We drove down to the Owens Valley Lab in Bishop, where we are staying. After dinner, we went to Charlie Canyon, where the habitat was very dry except under the biggest rocks and along the stream. We found 5 big adults (ChC Phys 1-5) and 4 juveniles between 20:00 and 20:30; one adult was foraging along the stream and all the others were under rocks. Finally, we went to Sawmill Canyon. After some pointless brushwacking due to my confusion about where we were, we arrived at the place where I found salamanders last year. It was fairly wet in the seeps along the cliff wall, and I found 6 adults (took 5 - 5mC 1-5) and 4 juvs. here; it was very dry everywhere else. I also collected an *Elgaria multicarinata* from the branches of a shrub. We searched from 21:30 - 22:30, but only spent 10-15 min in the good salamander habitat.



Risto, Sean
2007

Journal

Silver Creek, White Mtns., Inyo Co. and Lake George, Mammoth
Lakes Basin, Mono Co., CA

May 22

I spent the morning trying to regulate the temperature on the fridges and environmental chamber for my physiology experiments. Then we drove up to Silver Creek, in the White Mtns. N of Bishop. We parked where the road turns N away from the stream (37.40112°N , $118.22158^{\circ}\text{W}$ [WGS84, 6m acc.], 2191m elev. and searched here for ~30 min. There are lots of birch trees along the creek, which has a good flow of water. I found some good looking spots for *Batrachoseps*, with rocks and moist leaf litter similar to the *B. camp* site at Barrel spring, but didn't find any. We ate a quick lunch and then walked upstream, stopping to search at 2 spots. Both looked good - I had a small cascade and the other had limestone with moss and leaf litter. These seem like good *Batrachoseps* habitat. We searched a bit at the point where the canyon branches (37.37624°N , $118.21114^{\circ}\text{W}$ [WGS84, 7m acc.], 2496m elev. and then headed back. In all, we searched from 12:30-15:30. After dinner, we drove to Lake George, where it was quite snowy. We found 2 juvenile and 1 adult male *H. platyphalus* in ~15 min of searching in the seep, and Sean found an icecrawler and a *Nelobia* on the snow. When we got back to OVL, I found that 4 of 5 salamanders from Charlie Canyon that I put in the small fridge were frozen. One wasn't totally frozen and recovered completely. Another was frozen and slowly regained the ability to move. The last two were dead, and I had to preserve them (SMR246+247). I put all the salamanders at 15°C - can't trust the small freezers.



Kovits, Sean
2007

Journal

Olancha Creek, Inyo National Forest, Inyo Co., CA

June 1

I drove along the LADWP canal behind Olancha and parked where it meets the creek. I started at 11:45 and hiked up on the N side of the creek (much easier than other side) to near the mouth of the canyon. I climbed up the steep slope north of the canyon mouth to a small saddle and then back down on the other side to the creek. The creek is impassible starting from the south, so this is the only way in. I started climbing up the creek and searching. I got to a spot where there was a damp, mossy/dirty area next to the creek that may have seeps above it in wet periods. I found 1 juvenile and 3 adult H. platycephalus here under rocks (36.26535°N, 118.07087°W [WGS84, 26m acc.], 1719m elev.)^{at 15:00} and collected 2 adults (SMR255+256). Continuing up the creek, there are some nice cascades and mossy seep areas that look like perfect habitat. I found another adult H. platycephalus under a rock along the stream (36.26461°N, 118.07266°W [WGS84, 11m acc.], 1760m elev.) at 15:40. Continuing up, I got to an area with willow covering an area along the stream, with some rocks sitting in leaf litter. I found a subadult (SMR257) and a juvenile Batrachoseps robustus under 2 of these rocks, as well as 2 juv. H. platycephalus under the same rock about 1m away from the Batrachoseps rock (36.26482°N, 118.07347°W [WGS84, 7m acc.], 1779m elev.). A short distance upstream, I found a big adult Batrachoseps (SMR258) and a juvenile Hydromantes under the same rock! A bit up upstream, I found 2 juvenile Hydromantes under a rock on a big granite exposure along the stream at 16:40, at which point I stopped searching and headed back.



Reits, Sean
2007

Journal

June 1

Olauda Creek, Inyo NF, Inyo Co., CA (cont)

... Herman Giuliani said there had been a major flood before he visited last time (1995?) and that he had ^{not} found Batrachoseps and had only found Hydromantes in a side canyon, while he found both on his first survey. I found both in the main canyon, and they appear to be fairly abundant. He also found them in sympatry only at 5900', with Batrachoseps lower and Hydromantes up to 7200'. I found Hydromantes lower down, which suggests that they are not excluding each other as I suspected they might.



Ronto, Sean
2007

Journal

Smith Lake, Inyo National Wilderness, Inyo NF, Eldorado Co., CA
July 5 I hiked in to Smith Lake at night to collect H. platycephalus for my physiology experiments. I searched on the east side of the lake from approx. 9-10 PM and found 10 adults and 1 subadult. I took 5 adults (5ml Phys 1-5), which I will release here when I'm done. There were only 2 patches of snow in the seep area and the habitat was quite dry.

also saw -
a Pseudoeurycea sp.

Donner Pass, Stanislaus National Forest, Tuolumne Co., CA
July 6 I hiked out of Smith Lake in the morning and drove to Donner Pass to complete my physiology sample. The habitat along the road at the 9000' level was almost totally dry, and I saw only 1 subadult H. platycephalus. I walked along the trail to the cascade where I collected swabs in 2005. I searched for about 30 min and found 1 adult, 3 subadults and 2 juveniles. I kept the adult and 1 subadult (5ml Phys 4+5). I then drove to Bishop, where I camped. Lightning has closed 395 south of Big Pine - hope it opens tomorrow.

38.31068° N,
119.66188° W
[WGS84, 7m, 28m]
1 Km S of Hwy 108

Sixty Lake Basin, Kings Canyon NP, Fresno Co., CA
July 8 The east side of the Sierra Nevada from Taboose Creek to Onion Valley is on fire. The biggest fire seems to be at Oak Creek - I hope the salamanders at Charlie Canyon are OK - they should be underground by now. Yesterday, Onion Valley Rd. was closed because of the fire.



Karto, Sean
2007

Journal

July 8 Sixty Lake Basin, Kings Canyon NP, Fresno Co., CA (cont.)
After waiting at the bottom of the road and watching many cars go up and a few come down, I decided to drive up. The fire had completely burned the area between Gray's Meadow and upper Onion Valley. A Forest Service guy stopped me near the top, reprimanded me for driving through, and told me I was now stuck at the top. I hiked in to 60 Lake Basin, which took me longer than usual. On Shortcut Pass, between Glenn Pass and the SE end of 60 Lake Basin, I saw 6 adult Sierra bighorn sheep - the first I've ever seen.
Today, I walked over to the waterfall SE of Mt. Clarence King and searched for *A. platycephalus* from 11:30-12:30. I found 11 adults and 4 juveniles, all under rocks close to the stream or waterfall. The habitat is much drier than at this time last year; only areas right next to the stream or in the spray of the waterfall were wet. All but 2 salamanders were along the stream above the waterfall. There is no snow above the waterfall, either - almost no snow anywhere in the basin right now. I collected the 10 largest adults (SMR259-268), which will be the type series if I describe the southern lineage as a distinct species. The GPS at the top of the waterfall is 36.82752°N, 118.43613°W [WG584, 5m acc.], 3314 m elev. I was going to search this area by night, but since I already found enough salamanders I spent the rest of the day relaxing and reading.



Rosita, Sean
2007

Journal

July 20

Inyo Creek, Inyo National Forest, Inyo Co., CA
I spent yesterday in Yosemite with Sean Schirle. We hiked to Nojelsang Lake and searched some seeps on the south side, but they were very dry and we found nothing. We then searched an area of great-looking seeps below Hanging Basket Lake for ~30 min, but again found nothing. I spent the night near Bishop and then drove south to the Lone Pine campground in the morning. I hiked up to the waterfall on Inyo Creek where Sean and I found *H. platycephalus* last year. It is noticeably cooler in this area than even in the shaded areas downstream. I searched from 10:15-10:45 and found 2 small subadults and a tiny juvenile under rocks along the stream. I found a big adult under a rock in the mossy cave-like area to the left of the waterfall, which I collected (SMR271) since the other individual from here (SMR98) died while I was in the field last year and the tissue has never worked properly. I then returned to Bishop to continue my physiology work. The day was hot and sunny, with highs in the upper 90s.





Sean M. Rovito

2006 (Part) - 2007 (Part)

Photo Log #1020597 to 1040408



Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
5/23/06	1020597-602	Olancha Creek, habitat and landscape
5/24/06	1020603	Unnamed tributary of Cottonwood Creek, looking W
	1020604-06	data logger + salamander site, "
5/25/06	1020607	Lime Canyon, looking up canyon
	1020608+09	riparian habitat, Lime Canyon
	1020610, 11, 14, 15	riparian areas, Sawmill Creek
	1020616+17	Sm CI (breed + ventral swabs)
	1020618-20	salamander habitat, Sawmill Creek
	1020621+22	looking across Sawmill Creek at salamander site
5/26/06	1020623	side canyon of Pine Creek [PC (1)]
	1020624	snow, lower area of "
	1020625+26	data logger after flood, PC (1)
	1020627+28	PC (1) 11
	1020629	PC (1) 12
	1020630+31	PC (1) 13
	1020632+33	data logger with new pole, PC (1)
	1020634+35	snow bridge, side canyon Pine Creek
	1020636	Shannon Canyon area from the East
	1020637	mouth of Shannon Canyon
	1020638+39	view from inside Shannon Canyon
	1020640	looking W at Spook Canyon
	1020642	potential salamander habitat, Spook Canyon
6/1/06	1020645+46	SMR 91
	1020647-49	SMR 92
6/4/06	1020650+52	<u>H. platycephalus</u> , Camp Curry
	1020657+58	<u>Pseudacris</u> , Camp Curry



Photo log

Date	Photo #	Description
6/5/06	1020659-65,99,700	Liberty Cap + Nevada Falls, YNP
	1020667+68,95,97,98	final ascent to Half Dome
	1020669, 70	top of Half Dome
	1020671, 72, 73, 93, 94, 96	views from top of Half Dome
	1020667, 74, 92	salamander habitat, top of Half Dome
	1020675+77	HD1
	1020678+85	swarming salamander, Half Dome
	1020680+81	HD2
	1020682+83	HD3
	1020686+87	HD4
	1020688+89	HD5
	1020690+91	HD6
	1020703+04	VF1
	DSCN0411+12,15-17	SMR97
	DSCN0454-56	VF1
		} Taken by Drigo Martinez-Silva
6/15/06	1020709-15	spring, at base of Great Falls Basin
	1020716	view from above "
6/16/06	1020717-24,31	helicopter, China Lake
	1020725	B. punctatus tadpoles in 1st spring (above Twin Springs)
	1020726	Trap 1 in spring above Twin Springs
	1020727	Trap 2, in willows
	1020728	Trap 3, in opening under big rock
	1020729+30	Traps 4+5, along stream
6/17/06	1020732,33,36,37,40+41	H. platycephalus habitat, Lake George
	1020734+35	Lake George 1 (LGI)
6/18/06	1020743-45,47,49,51,64	Phrynosoma platyrhinos, SMR 100

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
6/18/06	1020752+53	Looking W from mouth of Pine Creek
	1020754+55	SMR102, <u>J. elegans</u>
	1020757+758	SMR101 (DOR), <u>J. elegans</u>
	1020759+60	SMR103, <u>J. elegans</u>
	1020761+63	Alison Schultz with Evening Dropbeak
	1020765+66	SMR107, <u>S. graciosus</u>
	1020770+71	SMR104, <u>B. boreas</u>
	1020772+73	SMR105, <u>B. boreas</u>
	1020776	SMR107, <u>S. intermontana</u> tadpole
	1020777+78	Papaya Meadow
6/19/06	1020779+81	SMR113, <u>S. graciosus</u> juvenile
	1020782+83	SMR124, <u>S. graciosus</u>
	1020784, 85, 92	<u>S. intermontana</u> juveniles
	1020795, 96	SMR110, <u>T. regilla</u>
	1020797, 98	SMR111, " "
	1020801, 1020802	SMR120, " "
	1020807, 08	SMR122, <u>B. boreas</u>
	1020809, 10	SMR112, " "
	1020811, 14	SMR121, <u>J. elegans</u>
	1020819, 20	SMR123, <u>J. scottii</u>
	1020824, 25	SMR118, " "
	1020828, 29	CMM10, <u>S. intermontana</u> juvenile
	1020830, 31	SMR116, <u>J. elegans</u>
	1020832, 33	Brockman lava flow
	1020834	pond at entrance to Christie campground
6/20/06		



Photo log

Date	Photo #	Description
6/20/06	1020836	tray of dead frogs
	10208 ⁴¹ 40 ⁴² 41	CMM 18, <u>T. regilla</u>
	1020843 + 44	CMM 19, <u>T. regilla</u>
	1020845 + 46	CMM 13, <u>S. occidentalis</u>
	1020847, 48	CMM 12, <u>S. multistriata gracius</u>
	1020852, 51	CMM 14, <u>S. occidentalis</u>
	1020852 + 53	CMM 15, <u>S. gracius</u>
6/21/06	1020854	Shrubby Valley at dusk, looking east
6/22/06	1020855 - 60 61	<u>Mambelia unigemma</u>
	1020862, 64	SMR 127, <u>B. boreas</u>
	1020865, 66	SMR 128, " "
	1020867, 71	SMR 129, " "
	1020872, 74	SMR 126, " "
	1020876, 76	CMM 28, <u>J. multistriata sitalis</u>
	1020877, 78	SMR 135, DOR <u>C. constricta</u>
	1020879, 80	SMR 136, " "
	1020883, 85	SMR 130, <u>B. boreas</u>
	1020885	SMR 135, <u>C. constricta</u> egg
	1020890, 93	SMR 131, <u>B. boreas</u>
	1020900, 02	SMR 132, <u>B. boreas</u>
	1030001, 02	SMR 133, " "
	1030004, 06	SMR 134, " "
	1030007, 08	SMR 125, <u>J. elegans</u>

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
6/30/06	1030014, 15	Sardine Falls, Sonora Pass
7/1/06	1030018	CC17
	1030019	CC18
	1030020	CC19
	1030024	CC20
	1030030	CC21
7/3/06	1030034-38	catching tadpoles, GO Lake Basin
	1030039-46	Hydromantes habitat, waterfall near Mt. Clarence King
	1030047	SL(2) 13
	1030050	SL(2) 14
	1030051	SL(2) 15
	1030052	SL(2) 16
	1030054	SL(2) 17
	1030055	SL(2) 18
	1030057	SL(2) 19
	1030058	SL(2) 20
	1030059	Mt. Clarence King from top of waterfall
	1030060, 63	Sean, searching above waterfall
	1030061 + 62	views of GO Lake Basin from above waterfall
7/4/06	1030064 + 65	J. elegans, Lake 10
7/5/06	1030066 + 67	looking north from Alona Pass
	1030068-72	grasses, below Hearsage Pass
	1030073 + 74	Charlie Canyon site
	1030075	ChC11
	1030076	ChC12



Karto, Sean
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Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
7/5/06	1030077	ChC13
	1030078	salamander rocks, Charlie Canyon
7/6/06	1030080	PC(2)11
	1030081	PC(2)12
	1030082	PC(2)13
	1030083	PC(1)14
	1030084	PC(1)15
	1030085+86	scand soap zone (large), Lake George
7/7/06	1030087+88	above Half Moon Lake (W side), Desolation Wilderness
7/8/06	1030089-95	Sierra Buttes
7/18/06	1030096	lower Bullfrog Lake, GTW
	1030097	Mt. Florence (N side), upper Bullfrog Lake
	1030098	looking W from upper Bullfrog Lake
	1030099	Bullfrog Lake, habitat where SMR138 found
	1030100	Bullfrog Lake, salamander habitat
	1030102	BL1
	1030104	BL2
	1030105	BL3
	1030109	BL4
	1030110	BL5
	1030111	BL6
7/19/06	1030113, 15	habitat ^N of Franklin Lakes, Sequoia NP
	1030114	Florence Peak (S side) and lower Franklin Lake
7/20/06	1030116, 17	views from the Watchtower (E, N), Sequoia NP
	1030118	seeps + waterfalls, Pear Lake



Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
7/18/06	1030096	lower Bullfrog Lake
	1030097	upper Bullfrog Lake seep habitat, NE side
	1030098	view to W from upper Bullfrog Lake
	1030099	site where 1st salamander found, upper Bullfrog Lake
	1030100, 06, 07	<u>Hydromantes</u> habitat, upper Bullfrog Lake
	1030102	BL1
	1030104	BL2
	1030105	BL3
	1030109	BL4
	1030110	BL5
	1030111	BL6
7/19/06	1030113	seeps, lower Franklin Lake, where SMR 139+140 found
	1030114	N side of Florence Peak from Franklin Lakes
	1030115	mossy seep, Franklin Lakes
7/20/06	1030116	view to the east from the Watchtower
	1030117	the Watchtower, S side
	1030118	seeps and waterfalls, Pear Lake
7/24/06	1030119	seep habitat, Jolly Lake
	1030120	data logger, Jolly Lake
	1030121	TL7
	1030122	TL8
	1030124	TL9
	1030126	TL10
7/27/06	1030133, 34	egg mass, seep zone N of 7 Tables Lake
	1030135, 36	seep zone N of 7 Tables Lake where SMR 143 found



Kanto, Sean
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Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
7/28/06	1030137, 39	White Bear Lake, view to S of Bear Lake Basin
	1030138, 40	Sean S, on way to Italy Pass
7/29/06	1030141	looking W from Connors Lakes
8/2/06	1030146-48	Bridalveil Falls
	1030142-44	Cascade Creek, falls near Hwy 140
8/10/06	1030149+50	SmL12
	1030151	SmL13
	1030152	SmL14
	1030153	SmL15
	1030154+55	SmL16
	1030156	SmL17
8/11/06	1030157+58	view from east shore of Lake Aloha
8/12/06	1030159	4th of July Chutes, spot where Will saw 1st salamander last time
	1030160+61	salamander site, 4th of July Chutes
	1030162, 63, 69, 71, 72, 73	4th of July Chutes
	1030164-68	" " , salamander
	1030170	" " , view to E
	1030174-78	Connors Lakes salamanders
	1030179	CnL1
	1030180	CnL2
8/13/06	1030181	Connors Lakes Basin and Mt. Connors, east side
	1030182+83	Ten Lakes Basin from below 10 Lakes Pass, YNP
8/15/06	1030184	Mt. Lyell
	1030185	view to the W from top of Lyell Canyon



Porter, Sean
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Journal

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/15/06	1030186	view down Lyell Canyon from head of canyon
	1030187 + 88	scaps, head of Lyell Canyon
	1030189	scaps, E side of Lyell Canyon at top
8/16/06	1030190-92	shadows in Carol Patton's hand, Lyell Canyon



Karto, Sean
2006

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/26/06	1030193-97	<u>Hermaphis mexicanus</u> , from Finca Sta Julia
8/27/06	1030198	view of saddle above El Rincon, looking S
	1030199	view to E from saddle
	1030200	Volcan Tacana from saddle
	1030201	view of San Marcos from saddle
	1030202	opening Bromeliads, near saddle on W side
	1030203	cloud forest, near saddle
	1030204-08	opening Bromeliads, below saddle on W side
	1030209	tree w/ Bromeliads, " "
	1030210-14	<u>Dendrobium brachycaea</u> , " "
	1030215	view of San Marcos from E side below saddle
	1030216-20	Laguna Chicabal
	1030221	bamboo forest, Chicabal
	1030222	Carlos searching, Chicabal
	1030223	Antonio " "
	1030224	Daniela " "
	1030225 + 26	Volcan Sta Maria from Volcan Siete Orejas
	1030227 + 28	looking N from Siete Orejas
	1030229	Parque Central, Mela, at night
8/28/06	1030232, 34, 37, 43	<u>A. brachycaea</u> , CRVA 1002
	1030244-47, 49, 50, 52-54, ^{56, 57}	" " , CRVA 1004
	1030258-66	<u>B. occidentalis</u> , CRVA 985
	1030267-78	<u>D. brachycaea</u> , CRVA 1005
	1030280-89	<u>D. brachycaea</u> , CRVA 1006
	1030290-300	CRVA 972, <u>B. rufotincta</u> ? Cerro Alux



Proito, Sean
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Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/28/06	1030301-3105	CRVA1017, <u>P. gubeli</u>
	1030316-25	CRVA1020, <u>B. rostrata</u>
	1030326-32,34	CRVA1019, <u>P. rex</u>
	1030335	Cerro Chitajel
	1030341 + 42, 43	Volcan Tajumulco from Cerro Chitajel
	1030345-52	<u>B. franklini</u> , 5 transect or hybrid
8/29/06	1030354-5	CRVA1023, <u>Cerophidion godmani</u>
	1030358-60	CRVA1024, "
	1030361	the Wakes with salamander, hotel Poray
	1030362-64	CRVA978, <u>Silom dimidiata</u>
	1030366, 68, 69, 72, 73, 75	CRVA1031, <u>B. franklini</u> x <u>lincolni</u>
	1030376	CRVA1027 + CRVA1031
8/30/06	1030377-82	CRVA1027, <u>B. lincolni</u>
	1030383-86	<u>B. occidentalis</u> , Abasco Colina II
	1030387-89	^{AM} AMA2146, <u>Silom</u>
	1030391, 92	cloud forest, 11.4km on road to El Porvenir
	1030394-97, 416, ⁴²⁰⁻ 422	AMA2142, <u>B. f. nigroflavescens</u>
	1030398 + 99, 402	cloud forest, Cerro Mazatal
8/31/06	1030400 + 01	AMA2148 MAZATAL <u>B. f. nigroflavescens</u>
	1030404-08	AMA2149, " "
	1030410	AMA2154, <u>Cerophidion godmani</u>
	1030411-13	landslide, road from Cerro Mazatal
	1030417-19	AMA2141, <u>Bufo variegatus</u>
	1030423-25	AMA2150, <u>Bufo taczanensis</u>
9/1/06	1030417-19	AMA2141, <u>Bufo variegatus</u>
	1030423-25	AMA2150, <u>Bufo taczanensis</u>



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Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
9/1/06	1030426-28	AMA2145, <u>Plectrohyla</u>
	1030429-33	AMA2146, <u>Smilisca baudinii</u>
	1030434-36	dry forest, 4 km S of La Trinitaria
	1030437-43	AMA2159, <u>B. rufescens</u>
	1030444-47, 50, 52-54, 56-58	<u>B. hartwegi</u> , Cerro Jontehuitz
9/2/06	1030459-62	San Cristobal de las Casas, Chiapas
9/6/06	1030463, 64, 66	log with branches where <u>Bolitoglossa</u> sp. found, Cerro de los Monos, Sierra de los Monos
	1030465, 67-69	cloud forest, Cerro de los Monos
	1030470, 72-84	<u>Cryptotriton</u> sp., CRVA 1044
	1030485-88	view to W from below Cerro de los Monos
	1030489	" " E "
9/7/06	1030490-91	cafetal with bananas where <u>Bolitoglossa</u> sp. found, SSE of La Union, Zacapa
	1030492-94	cloud forest, Cerro los Monos, La Union, Zacapa
	1030495-98	land orch, "
9/8/06	1030499+500, 506-08	CRVA 1044, <u>Cryptotriton</u> sp.
	1030509	CRVA 1050, <u>Smilisca baudinii</u>
	1030510-16, 19, 20	CRVA 1042, <u>Bolitoglossa</u> sp. nova "Finca Planada"
	1030526-32	CRVA 1054, <u>B. rufescens</u>
	1030533-40, 44	CRVA 1049, <u>Bolitoglossa</u> sp.
	1030545+46	CRVA 1052, <u>B. rufescens</u>
	1030547+48	CRVA 1053, <u>B. rufescens</u>
	1030549	CRVA 1055, <u>B. rufescens</u>
	1030550	CRVA 1056, <u>B. rufescens</u>
	1030551+52	CRVA 1057, <u>B. rufescens</u>



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Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
9/8/06	1030553	CRVA1051, <u>B. rufescens</u>
	1030554, 56-58	CRVA1044, <u>Gypsobatrachus</u> sp., ventral
9/8/06	1030559-70	<u>Liuvigina</u>
9/9/06	1030573, 77	<u>Agalychnis</u> eggs on leaf
	1030574	<u>Agalychnis</u> Tadpoles
9/10/06	1030578 1030578-84	CRVA1077, <u>B. mexicana</u>
	1030585	CRVA1078, " "
	1030586-88	CRVA1079, " "
	1030589-93	CRVA1080, " "
9/10/06	1030594	frogs + salamanders in tray
9/11/06	1030595-644	Jikal
9/12/06	1030645+46	Lago Peten ch'za from Hotel Camino Real
	1030647-56	Maxhá, Petén
9/14/06	1030657	Hotel La Posada, Coban
	1030658+59	cloud forest S of Purulha

100

100

100

100

100

100

Pinto, Sean
2006

Photo log

Date	Photo #	Description
9/26/06	1030661-62	view to E from El Cariche, Fabio
9/27/06	1030663-67	Juan working, " "
	1030669-71, 73-74	<u>Phonocarpus</u> , " "
9/30/06	1030681-82	Plaza Santander, Bogotá
	1030683-88	Plaza Bolívar, Bogotá
	1030689	street, La Candelaria, Bogotá
10/2/06	1030690, 93-95	view to N from lookout, Chicagüe
	1030691, 96	" " W "
	1030692	" " S "
	1030697-99	lizard, Chicagüe
	1030700-703	SMR164, <u>Bolitoglossa</u> ^{sp.} adspersa , Chicagüe
	1030704-06	<u>Aleutherodactylus</u> , Chicagüe (sp. = <u>Obogotensis</u>)
10/3/06	1030707-14, 16-18	SMR164, <u>B. adspersa</u> <u>Bolitoglossa</u> sp.
	1030781-83	SMR167, <u>B. adspersa</u> " "
	1030784-86	SMR165, <u>B. adspersa</u> " "
	1030787-95	SMR166, <u>B. adspersa</u> " "
	1030796-97, 99, 801	cloud forest, Chicagüe, near entrance and mirador
	1030798	site where SMR166 + 167 found, " "
	1030800	view to N from mirador, Chicagüe



Riitters, Sean
2007

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
2/14/07	104002-6	<u>H. brunus</u> , HC4, Hite Cave
2/15/07	104008+9	<u>H. brunus</u> , Hell Hollow at Bagby, HH(1)6
	104010+11	, HH(1)7
	104012	, HH(1)8
	104013+14	, HH(1)9
	104015+16	<u>H. brunus</u> , HH(2)7, Hell Hollow at hairpin turn
	1040017-21	<u>Batrachoseps diabolus</u> , " "
2/16/07	1040022	juvenile <u>H. brunus</u> , N Fork Merced at Indian Dutch
	1040024	<u>H. brunus</u> , NF7, " "
	1040025	, NF8, " "
	1040026	, NF9, " "
	1040028	, NF10, " "
	1040029	, NF11, " "
	1040031+32	, NF12, " "
	1040032	Riitters, N Fork Merced at Indian Dutch
	1040034, 37	<u>H. brunus</u> habitat, " "
	1040035, 36	surrounding area, " "
3/16/07	1040058-59, 62	S-facing slope on N side of Merced, Ferguson Slide
	1040060+61	roadcut, S side of Merced E of slide at bridge
3/17/07	1040063, 64, 69, 70	talus, " "
	1040065, 67, 68	<u>P. catenifer</u> , Ferguson slide
	1040071, 72	hill on N side of study area
	1040073	E temporary bridge
	1040074, 75, 77	talus habitat, study area, S side of Merced River
3/22/07	1040078-81	<u>Hydromantes brunus</u> , SMR 206



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Photo log

<u>Date</u>	<u>Number</u>	<u>Description</u>
3/22/07	1040082-85	<u>H. brunus</u> confirmed habitat (SMR 206)
3/23/07	1040086-88	<u>Masticophis lateralis</u> , SMR 205
	1040089	habitat on E side of slide, east of bridge
	1040090	S-facing slope, N side of Middle Fork Merced, study area
3/25/07	1040091-94	<u>Diadophis</u> , SMR 204
	1040096	<u>Ensatina e. xanthoptica</u> , largest of series, SMR 180
	1040095	<u>B. diabolus</u> , Ferguson slide area
	1040096-105	<u>Rhyacodonta variegatus</u> , Hunter Creek, Del Norte Co., CA
	1040106, 08, 11	<u>Aneides vagrans</u> , " "
	1040112-15	<u>Desmognathus</u> <u>tenebrosus</u> , " "
	1040116-18	<u>Plethodon elongatus</u> , Klamath River (type loc), Del Norte Co.
	1040119-21	<u>Ensatina eschscholtzii picta</u> , " "
	1040122-27	<u>Ensatina e. picta</u> , Hunter Creek, Del Norte Co., CA
3/27/07	1040128-31	<u>H. brunus</u> , Ferguson slide
	1040132, 35, 36	<u>H. brunus</u> , SMR 203, Ferguson slide
3/28/07	1040137	<u>H. brunus</u> , subadult, FS1
	1040138	good-looking habitat, Ferguson slide
	1040139	place where juvenile <u>H. brunus</u> found last night
	1040140	<u>H. brunus</u> , Bear Creek (BC) 1
	1040141	BC 2
	1040143	BC 3
	1040144	BC 4

Photo log

Date	Number	Description
4/30/07	1040145-152	hedge, Biotope del Quetzal, Peten
	1040155-60	<u>B. helmsrichi</u> , "
5/1/07	1040161-63	<u>B. helmsrichi</u> , Biotope del Quetzal
	1040164-66	<u>Gymnotobatrachus veraepacis</u> , Biotope del Quetzal
5/2/07	1040167-190	<u>Gymnotobatrachus veraepacis</u> , CRVA1112
	1040191, 93-95, 97	<u>Bolitoglossa helmsrichi</u> , Biotope del Quetzal
	1040199-202	" "
5/2/07	1040204	<u>B. conanti</u> , La Union, Zacapa
5/3/07	1040205-208	habitat, La Union Depto. Zacapa, Finca Planada where <u>Gymnotobatrachus</u> found
	1040209	Carlos + Gustavo, Finca Planada
5/4/07	1040210-211, 217-18	habitat, Finca Planada, lower area
	1040212-216	no working, Finca Planada
	1040219-20	<u>B. zacapensis</u> , Finca Planada
	1040221-24	tall trees, lower area, Finca Planada
	1040225-28	no with Julio Vargas (center), Rodrigo Morales (right)
5/5/07	1040230-35	SMR 215, <u>B. conanti</u>
	1040236-40	CRVA1114, <u>B. conanti</u> ?
	1040241-49, 51	CRVA1117, <u>C. sierramensis</u>
	1040252, 53, 55, 56	CRVA1119, <u>B. helmsrichi</u>
	1040257, 63, 68, 70-71	SMR 218, <u>Bolitoglossa</u>
	1040272-75, 78-80, 82-87, 90	SMR 222, <u>Bolitoglossa</u>
	1040293-95, 97-98, 300-03	SMR 216, <u>C. sierramensis</u>
	1040304-05, 07-14, 16-17	SMR 221, <u>Bolitoglossa</u>
	1040318-23	CRVA1113, Bolitoglossa <u>Dryadophis</u>
	1040324-27	CRVA1127, <u>Leptodeira</u>



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2007

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
5/5/07	1040328, 30	CRVA1119, <u>B. helwrichi</u> , ventral
	1040334	CRVA1128, <u>Sapronomorphus</u>
	1040335, 36, 38-40	SMR216, <u>C. andamanensis</u> , ventral
	1040341, 42, 44	SMR221, <u>Bolitoglossa zacapensis</u> , ventral
	1040345, -48	SMR222, " "
	1040349, 50	CRVA1130 CRVA1130, <u>Bufo</u> metkensis <u>metkensis</u>
5/6/07	1040351-59	Laguna Chapala, Volcan Chapala
5/7/07	1040360-63	SMR228, <u>Scinax staufferi</u>
	1040364-65	SMR229, <u>Bufo</u> metkensis <u>metkensis</u>
	1040366	CRVA1132+33, <u>S. staufferi</u>
	1040367, 69	CRVA1132, " "
	1040368, 70	CRVA1133, " "
	1040374	CRVA1115, <u>B. cananti</u>
	1040375	CRVA1116, <u>B. helwrichi</u>
	1040376	CRVA1117, " "
	1040377, 78	CRVA1107, <u>B. helwrichi</u>
	1040379	CRVA1118, <u>Bolitoglossa helwrichi/zacapensis</u>
	1040380	CRVA1119, " "
	1040381, 82	CRVA1114, <u>B. cananti?</u>
	1040383	CRVA1121, <u>B. helwrichi/zacapensis</u>
	1040385	CRVA1122, " "
	1040386	CRVA1118, " "
	1040387-93	forest, Finca las Branadillas, Pinarito
	1040394-99, 401	CRVA1138, XXXXXXXXXX <u>Bolitoglossa</u> sp
	1040403-06	SMR234, " "
	1040407+08	CRVA1138, XXXXXXXXXX <u>B. sp.</u> , ventral



9/14/06 Left in Guatemala City:

- ~ 200 cryogenic vials
- 1 box latex gloves
- ~ 200 swabs
- 160 swab vials
- 250 ethanol vials
- 1 tube rack
- 2 boxes Kimwipes
- ~ 200 small plastic bags
- 1 bromeliad cutter
- 3 turtle traps
- ~ 5 yards cheesecloth
- 1 box (~100) razor blades
- 2 potato rakes
- 1 bottle RNALater
- 3 2L Nalgene bottles
- 2 0.5L Nalgene bottles
- 1 squeeze bottle for 95% EtOH
- 1 machete



Carlos Vásquez Almazán

Museo de Historia Natural - Escuela de Biología

USAC. Calle Mariscal Cruz 1-56 zona 10

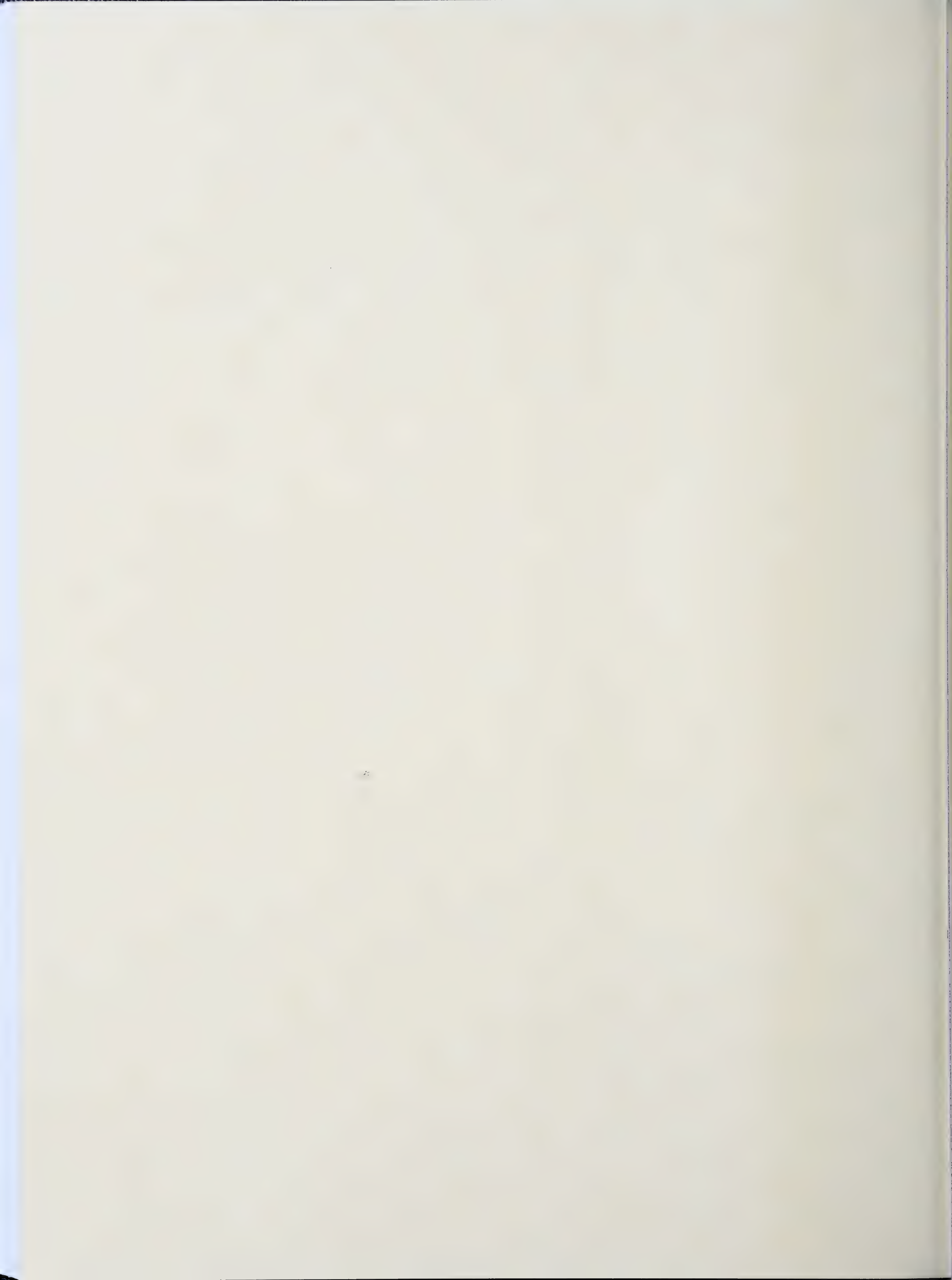
Cp. 01010

8:00 - 16:00 hrs.

Guatemala Ciudad

Centroamerica





Sean M. Rovito

2007 (Part) - 2008 (Part)

Physiology and Rehydration notes



Physiology - CT min 6/7/07

4°C Acclimation

ChCPhys1 3.718 g 1801-1905 ②

CT_{min}: -5°C

CT_{max}: 26°C

1659-1736

ChCPhys2 2.342 g

1801-19:04 ②

CT_{min}: -5.0°C

CT_{max}: 26.5°C

1659-1731

ChCPhys3 1.914 g

1800-1839 ①

CT_{min}: -5.5°C

CT_{max}: 27°C

1739-1801

SPPhys1 1.005 g

1800-1900 ①

CT_{min}: -5°C

CT_{max}: 26°C

6/8/07

1622-1647

SPPhys2 1.311 g

1050-1132 ①

CT_{min}: -5.5°C

CT_{max}: 27°C

1545-1616

SPPhys3 1.519 g

1050-1132 ①

CT_{min}: -5.5°C

CT_{max}: 27°

1545-1611

SmCPhys1 1.292 g

1052-1146 ②

CT_{min}: -5°C

CT_{max}: 27°C

1950-2012

SmCPhys2 1.194 g

1052-1135 ②

CT_{min}: -7.5°C

CT_{max}: 28°C

1807-1634



~~SmCP~~Phys3 1.840 g 1301-1343 ①

CT_{min}: -7°C

CT_{max}: 28°C

~~1807-1634~~

SmCPPhys4 1.675 g 1301-1342 ①

CT_{min}: -6.5°C

CT_{max}: 27°C

1912-1945

SmCPPhys5 1.330 g 1303-1340

CT_{min}: -5°C

CT_{max}: 27°C

1912-1945

these 3 lost ability of coordinated movement at ~-5°C

only 1st 4 salamanders done for CT_{min} on 6/8/07
everything else on 6/9/07



Dehydration

Weight at:

<u>T_0</u>	<u>Sample</u>	<u>$T_0(g)$</u>	<u>T_{10}</u>	<u>T_{20}</u>	<u>T_{30}</u>	<u>T_{40}</u>
2021	ChCP _{hys} 1	3.888	3.818	3.772	3.704	3.661
2022	2	2.448	2.410	2.381	2.348	2.321
2022	3	1.974	1.928	1.901	1.862	1.831
2024	JPP _{hys} 1	0.943	0.914	0.897	0.878	0.863
2025	2	1.232	1.204	1.184	1.162	1.139
2026	3	1.335	1.310	1.284	1.255	1.223
2108	SmCP _{hys} 1	1.239	1.212	1.187	1.166	1.145
2109	2	1.153	1.132	1.108	1.079	1.057
2109	3	1.873	1.832	1.806	1.777	1.753
2110	4	1.641	1.614	1.586	1.556	1.529
2111	5	1.312	1.285	1.252	1.225	1.197

23.3°C 25% RH



Rehydration

Weight at:

Sample	T_{40} (g)	T_{60}	T_{80}
ChC/Phys	3.661	3.768	3.838
2	2.321	2.403	2.392
3	1.831	1.897	1.970
SPPHys	0.863	0.905	0.922
2	1.139	1.183	1.214
3	1.223	1.246	1.268
SmC/Phys	1.145	1.186	1.226
2	1.057	1.107	1.109
3	1.753	1.806	1.852
4	1.529	1.594	1.637
5	1.197	1.248	1.298



Physiology - H. brunus
3/12/08 00 Acclimated at 15°C 3/10/08 - 3/12/08

SMR554 - Hell Hollar 4.09 g

CT_{min}: 14:48 - ~~16:06~~ 16:06 -3.5°C

CT_{max}: 20:42 - 20:55 26.5°C

SMR556 - Sweetwater Creek

3.09 g

CT_{min}: -5.5°C

16:22 - 18:01

CT_{max}: 27°C

20:58 - 21:14

SMR558 - Briceburg

1.83 g

CT_{min}: -5.5°C

16:22 - 17:57

CT_{max}: 28°C

21:18 - 21:34

SMR559 - Briceburg

1.85 g

CT_{min}: -1.5°C

14:44 - 15:44

CT_{max}: 26.5°C

21:59 - 22:12

SMR560 Bear Creek

0.91 g

CT_{min}: -3.5°C

18:16 - 19:14

CT_{max}: 26.5°C

22:16 - 22:28



Physiology - H. brunus

Acclimated at 4°C 3/12/08-3/19/08

SMR554 - Hell Hollow

4.13g

CT_{min}: -5.5°C

14:47-15:49

3/20/08

CT_{max}: 24.5°C

14:09-14:35

SMR556

3.03g

CT_{min}: -4°C

14:47-15:32

3/20/08

CT_{max}: 23°C

14:40-15:04

SMR558

1.62g

CT_{min}: -6.5°C

~~16:13-16:54~~

3/20/08

CT_{max}: 26.5°C

16:20-16:53°C

SMR559

1.83g

CT_{min}: ~~16:13-16:49~~ -5.5°C

~~16:13-16:49~~

CT_{max}: 24.5°C

3/20/08

17:05-17:26

Physiology - H. brunus

4°C Acclimation

3/19/08

SMR560

0.88g

CT_{min}: -3.5°C

19:22 - 19:55

3/20/08

CT_{max}: 28°C

17:30 - 18:00



Dehyd

T₀

10

20

30

40

Rehyd

20

40

18:34

ΣMR554

4.408

4.370

4.327

4.285

4.247

4.322

4.380

18:35

556

3.640

3.585

3.482

3.429

3.370

3.433

3.486

18:38

558

1.706

1.861

1.831

1.801

1.754

1.807

1.843

18:40

559

2.071

2.034

1.974

1.950

1.929

1.966

1.961

18:33

560

0.894

0.871

0.849

0.832

0.804

0.825

0.842

T_{emp} = 20.7°C, RH = 35%



Physiology - *H. platycephalus*
9/30/08

15°C Acclimation - 9/22/08 - 9/30/08

SMR40

3.24g

CT_{min}: -4°C

14:58 - 15:50

CT_{max}: 25°C

21:00 - 21:15

SMR42:

3.01g

CT_{min}: -4.5°C

16:01 - 16:56

CT_{max}: 26.5°C

21:18 - 19:31

SMR44:

3.41g

CT_{min}: -4°C

16:01 - 16:49

CT_{max}: 28.5°C

21:34 -



10/8/08 4°C Acclimation

SMR40

CT_{min}: -5°C

2.81g

19:20-20:15

CT_{max}: 26.5°C

10/10/08 14:11-14:43

SMR42

CT_{min}: -5.5°C

3.01g

20:20-20:52

CT_{max}: 26.5°C

10/10/08 14:50-15:29

SMR44

CT_{min}: -6°C

3.21g

20:20-20:54

CT_{max}: 27°C

10/10/08 15:²⁶~~11~~-15:55



Dehydration / Rehydration		Dehydration		Rehydration	
37% RH, 23.3°C					
T_0	T_{10}	T_{20}	Dehydration T_{30}	T_{40}	T_{50}
SMR42	2.7523	2.7262	2.6873	2.6574	2.7240
					2.7713
SMR44	2.8985	2.8552	2.8137	2.7854	2.7445
					2.7920

escaped for unknown amount
of time - conduct measure



